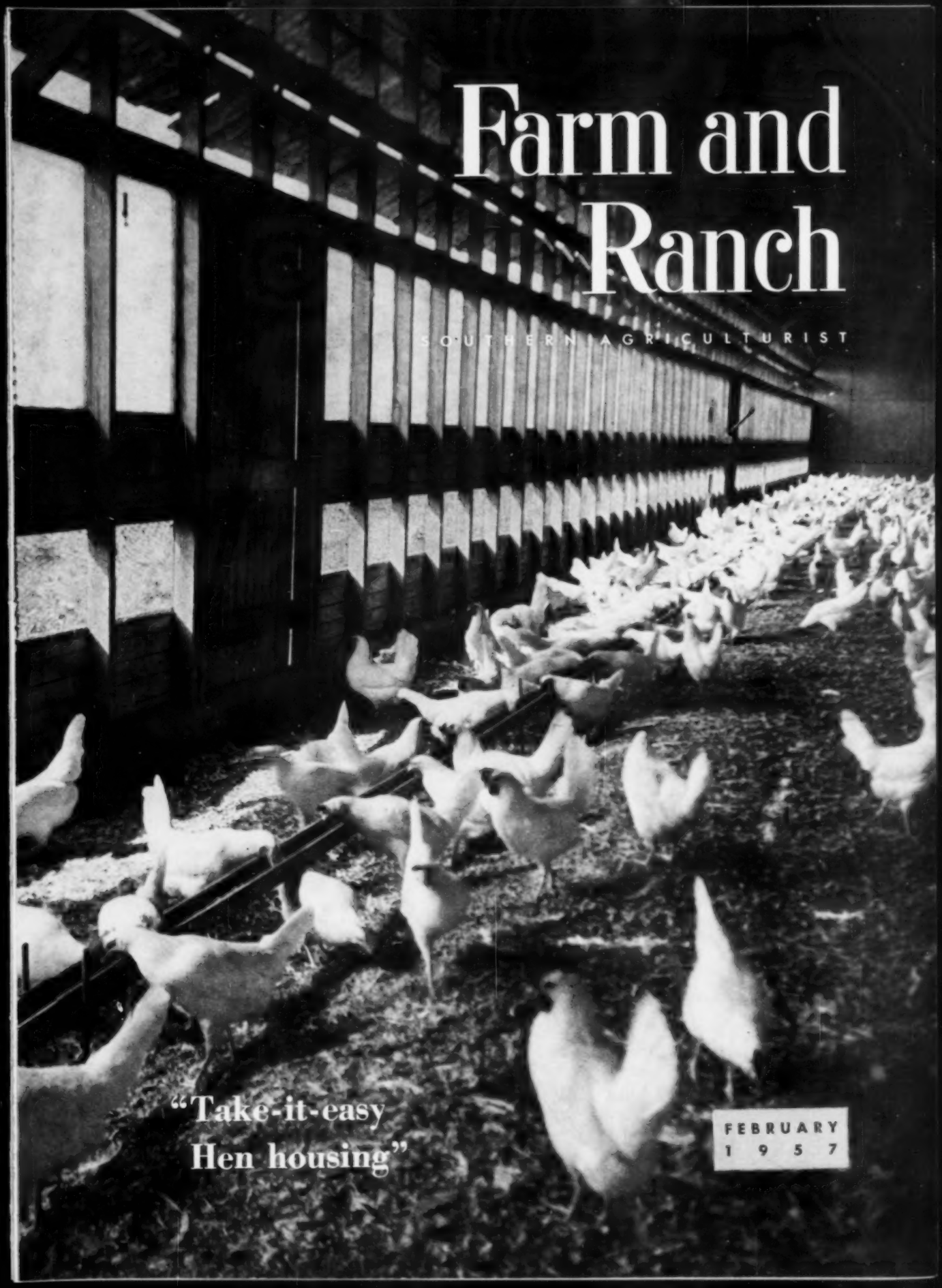
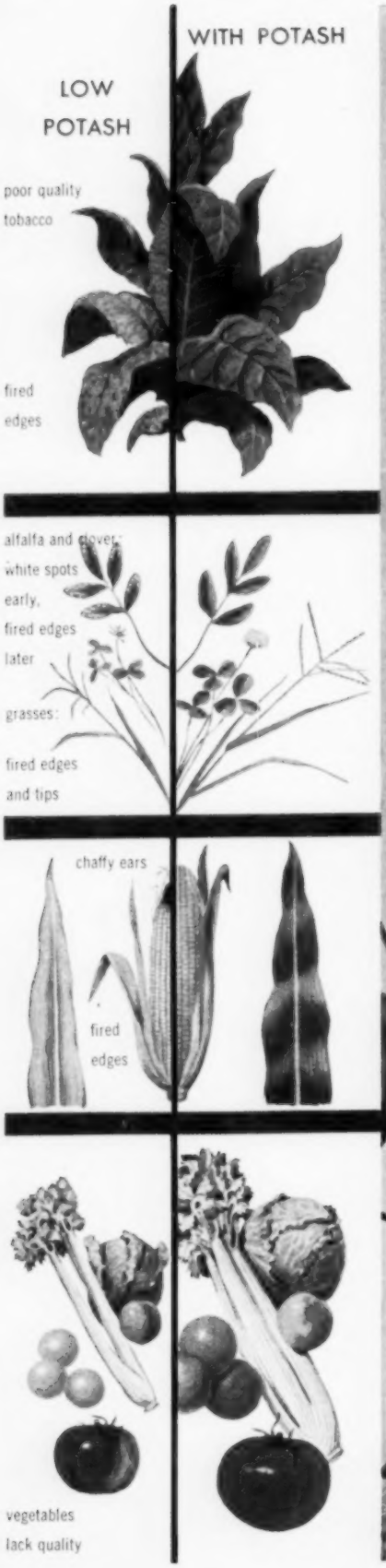
Farm and Ranch

SOUTHERN AGRICULTURIST



"Take-it-easy Hen housing"

FEBRUARY 1957


WITH POTASH
LOW POTASH
poor quality tobacco
fired edges
alfalfa and clover:
white spots early,
fired edges later
grasses:
fired edges and tips
chaffy ears
fired edges
vegetables lack quality

LOW POTASH
WITH POTASH
small knotty bolls
fired edges

WHY-WHEN-HOW you should use

POTASH

Low-cost key to productivity in Southern soils

WHY use potash? Very simple: *it pays.*

Potash is the low-cost key which opens the door to highest soil productivity. Potash puts yield and quality in corn and forages. It takes you to the gin with not only more, but *higher grade* cotton. Potash makes *all* crops yield better, look better, use moisture better—even fight off disease better.

With *severely limited* supplies of potash, plants will live, but develop many of the starvation symptoms shown in the left-hand sides of the illustrations on the opposite page. With *moderately limited* amounts of potash in your soil, you won't see these warning signs, will never know the profit you *could have* realized. If you are following a typical Southern cropping pattern and fertilizing program, *you are running lower and lower on potash.* Without delay, collect soil samples, have them tested. Potash is low in cost; it will pay you to put on *every pound* the soil tests indicate you need.

In short, potash—the *lowest-cost* of the major fertilizer elements—contributes to *highest profits.* Not only through greater yields, but also through products of *higher quality,* better market appeal.

WHEN is the best time to use potash? There are several good times. Just before or at time of planting. Or as a topdressing or sidedressing. Or as broadcast applications to build up the level of soils low in potash.

But remember this: Southern crops—corn, cotton, small grains, forages, tobacco and truck crops—all need large amounts of potash. Whenever you market a crop, you have sold potash off your farm—and need to replace it, just as surely as you need to fill the gas tank after a day of heavy plowing.

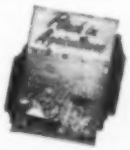
The single most important point to remember about *when* to apply potash is to apply it *before* a single hunger sign can be seen. When hunger signs show, all you can hope to do is *cut your losses.* Apply potash early and amply, and *build your profits.*

HOW to apply potash? Apply potash in mixed fertilizer *in the row* for crops like corn, cotton, or tobacco. With modern equipment, band applications can be made at or just before planting. For best results, place it about 2" below and 2" to one side of seed.

Sometimes, because soils are sandy or for other reasons, it is desirable to split potash applications. In such cases, part of the potash can be applied later as a sidedressing. For pastures or hay crops, high-potash mixed fertilizers can be broadcast or drilled. Alfalfa generally requires annual topdressings with an 0-9-27, or similar analysis.

Southern crops all require potash. Heed your soil test results and apply potash where needed—you'll be glad you did.

WRITE FOR FREE BOOKLET:
"Potash In Agriculture"

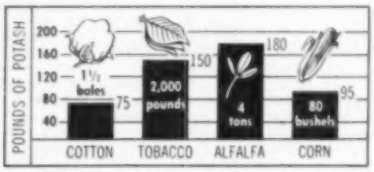


K_2O AMERICAN POTASH INSTITUTE, INC.
Dept. 141, 1102 Sixteenth Street, N.W., Washington 6, D.C.

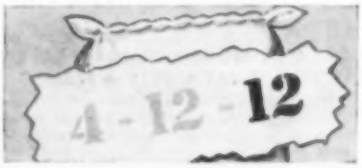
MEMBER COMPANIES: American Potash & Chemical Corporation • Duval Sulphur & Potash Company • Potash Company of America • Southwest Potash Corporation • United States Potash Company Division of United States Borax & Chemical Corporation

2-Minute Short-Course on How to *Buy* Potash . . .

Don't wait for hunger signs. Test soil, apply needed potash. Consult your official agricultural advisor.



Southern crops use lots of potash. And, the better your yield, the more potash next year's crops need.



Potash is the "anchor man" in a fertilizer analysis—just as it is in building quality and yield in crops.

And How to *Apply* Potash . . .

In the South, band applications at or just before planting are recommended to replace bedding on.

For top Southern pastures, use plenty of potash when starting, and topdress to maintain yield.

On cotton, corn and tobacco, sidedressing with potash can increase yields and boost the quality.

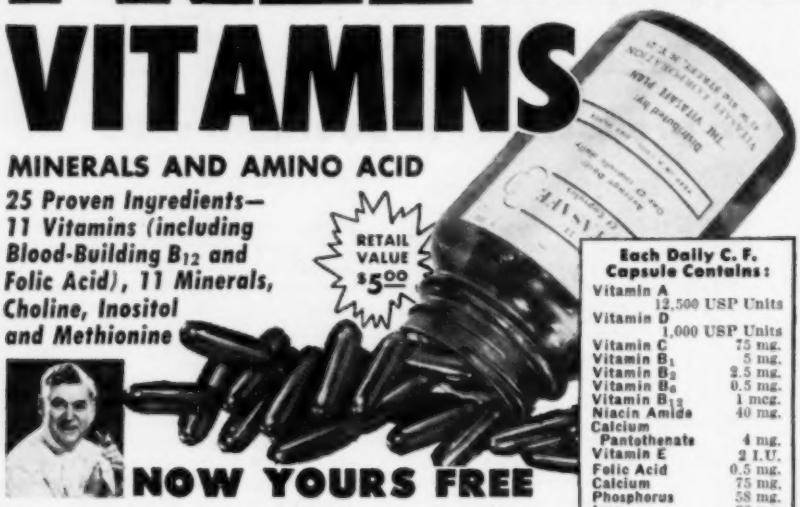
FREE VITAMINS

30 DAYS SUPPLY
Safe High Potency Nutritional Formula

MINERALS AND AMINO ACID

25 Proven Ingredients— 11 Vitamins (including Blood-Building B_{12} and Folic Acid), 11 Minerals, Choline, Inositol and Methionine

RETAIL VALUE $5.00



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● To prove to you the remarkable advantages of the Vitasafe Plan . . . we will send you, without charge, a 30-day free supply of high-potency VITASAFE C. F. CAPSULES so you can discover for yourself how much healthier, happier and peppier you may feel after a few days' trial! Just one of these capsules each day supplies your body with over *twice* the minimum adult daily requirement of Vitamin B_1 and the *full* concentration recommended by the National Research Council for the other four important vitamins! Each capsule contains the amazing Vitamin B_{12}—one of the most remarkably potent nutrients science has yet discovered—a vitamin that actually helps strengthen your blood and nourish your body organs.

Each Daily C. F. Capsule Contains:

Vitamin A	12,500 USP Units
Vitamin D	1,000 USP Units
Vitamin C	75 mg.
Vitamin B_1	5 mg.
Vitamin B_2	2.5 mg.
Vitamin B_6	0.5 mg.
Vitamin B_{12}	1 mcg.
Niacin Amide	40 mg.
Calcium Pantothenate	4 mg.
Vitamin E	2 I.U.
Folic Acid	0.5 mg.
Calcium	75 mg.
Phosphorus	58 mg.
Iron	30 mg.
Cobalt	0.04 mg.
Copper	0.45 mg.
Manganese	0.5 mg.
Molybdenum	0.1 mg.
Iodine	0.075 mg.
Potassium	2 mg.
Zinc	0.5 mg.
Magnesium	3 mg.
Choline Bitartrate	31.4 mg.
Inositol	15 mg.
dl-Methionine	10 mg.

Compare this formula with any other!

POTENCY AND PURITY GUARANTEED

There is no mystery to vitamin potency. As you probably know, the U.S. Government strictly controls each vitamin manufacturer and requires the exact quantity of each vitamin and mineral to be clearly stated on the label. This means that the purity of each ingredient, and the sanitary conditions of manufacture are carefully controlled for your protection! And it means that when you use VITASAFE C. F. CAPSULES you can be *sure* you're getting exactly what the label states . . . and that you're getting *pure* ingredients whose beneficial effects have been proven time and time again!

WHY WE WANT YOU TO TRY A 30-DAY SUPPLY — FREE!

We offer you this 30-day free trial of valuable VITASAFE C.F. CAPSULES for just one reason. So many persons have already tried them with such astounding results . . . so many people have written in telling us how much better they felt after only a short trial . . . that we are absolutely convinced that you, too, may experience the same feeling of health and well-being after a similar trial. In fact, we're so convinced that we're willing to back up our convictions with our own money. *You* don't spend a penny for the vitamins! All the cost and all the risk are *ours*. A month's supply of similar vitamin capsules would ordinarily cost $5.00 retail.

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Covering the South East of the Mississippi
318 Murfreesboro Road
Nashville, Tennessee

2 Southern Editions

ESTABLISHED 1869

1957 February
Vol. 87—No. 2

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4 good reasons for putting new Champion Spark Plugs in all your farm engines

1. MORE USEFUL ROAD HORSEPOWER: Loads like this call for plenty of power. Tests show that new Champions—replacing plugs that have gone about 10,000 miles—increase useful road horsepower an average of 24%.

. BETTER ENGINE PROTECTION:
il can be diluted by misfiring plugs ripping raw gas into crankcase. New hampions fire every drop, help pre-ent costly repair bills.

3. QUICKER STARTING:
In any weather, 5-rib insulator cuts flashover, saves battery. Tests show new Champions start an average 39% quicker when worn plugs are replaced.

4. GREATER ECONOMY:
See how new Powerfire electrode performs in today's engines, delivering full power from every drop of gas long after ordinary electrodes are burned away.

Any one of these four reasons makes it worthwhile to replace worn, misfiring plugs with new, full-firing Champions. But you can get them all—more power, better engine protection, quicker starting, and greater economy—when you install 5-rib Champion Spark Plugs.

To be sure that you are always getting peak engine performance, check spark plugs regularly. If you find worn, pitted electrodes, replace the entire set with dependable new Champions. That way you will get the best possible service from *all* your farm engines.

Dependable 5-rib

CHAMPION

SPARK PLUGS

CHAMPION SPARK PLUG CO.
TOLEDO 1, OHIO

Why *Panogenized* seed yields extra bales

Anthracnose boll rot, shown right above, is just one of the diseases you can stop when your seed is treated with PANOGEN . . . the modern liquid seed disinfectant that has proved so effective against **seed decay,** and the important seedling diseases like **anthracnose, rhizoctonia damping-off** (soreshin), and other seed and soil-borne diseases.

How Panogen stops diseases. As soon as liquid PANOGEN is applied, it begins releasing powerful vapors which penetrate every crack and pore of the seed . . . even destroying diseases under the hull where disinfectants without such vapor action can't reach. And once it's applied, PANOGEN clings permanently to the seed coat, giving long-lasting protection even after seed is in the soil.

By *effectively* disinfecting the seed and stopping diseases that rot seed and seedling, PANOGEN permits more seedlings to sprout . . . makes them more vigorous.

That's why red-tinted *Panogenized* seed comes up faster, is less likely to need replanting, produces healthier plants, and higher yields.

Panogenizing of seed is especially profitable in years when unusually dry, wet, or cold soil delays the germination.

Sorghum, wheat, barley, oats, flax, all benefit from *Panogenizing.*

When your seed is *Panogenized* you have assurance of better seed treatment. PANOGEN is 18 years proven and . . .

PANOGEN *is the only liquid seed disinfectant widely approved by agricultural colleges, coast to coast.*

This year, be sure every pound of your planting seed is treated with PANOGEN, the Liquid Seed Disinfectant.

This year, insist that your seed is

Panogenized

by your local seed processor

LETTERS

• • • I would like to express my appreciation to you for your fine editorial on the United Nations. It is without a doubt the best I have read. Writers like yourself are making great contributions to the preservation of our Constitution and American way of life. There seem to be many writers, contaminated with Communism, who would destroy our precious heritage.

Ralph Kolb *Sumter, S. C.*

• • • I have always liked FARM AND RANCH until I read your article in "Straight Talk" November Issue.

The Democrats are and have always been for the poor and needy. The rich don't need help, but they are the ones who prosper under the Republican Administration. The U.S. is practically made up of "Little Men" such as I.

Mrs. C. H. Clark *Huntland, Tenn.*

In America, the "little man" is an invention of political demagogs. Only in America can any man go from rags to riches, from tobacco road to Palm Beach, from slums to White House. Compared with other nations and other times, most Americans are big. Most Americans live like kings used to. They curtsy to no king. They acknowledge no "betters." America is the land of freedom and opportunity. America is a big nation and big people.—T. A.

Enjoyed January

• • • I would like to have 24 copies of the article entitled "Straight Talk" by Tom Anderson which appeared in the January, 1957, issue of your magazine.

S. B. Mitchell *Gallatin, Tenn.*

• • • . . . one of the best articles I have ever read on the subject of States Rights.

I happen to have devoted some time here in Mississippi toward the passing of this Right-To-Work law that we have; then during the last session of the legislature we watched the progress of that session mighty close to keep some effort from being made to repeal the law. You have certainly got the picture as I see it, and I do wish that we had other outstanding newswriters that would express themselves as you have. . . .

D. P. Granberry *Laurel, Miss.*

(Continued on page 8)

When you have to win a calf or pig scours fight . . . fast!

You can't afford to experiment when you are fighting calf or pig scours — you have to stop it fast!

AUREOMYCIN® Chlortetracycline Soluble is your best assurance because it *immediately* attacks scours in calves and pigs. And stays in the animal *longer* to do a thorough job.

AUREOMYCIN Soluble dissolves quickly in the drinking water, milk or milk replacer and is readily accepted by the animal — calves or pigs too sick to eat will usually drink.

When scours is a problem — win your fight — fast — with convenient, easy-to-use AUREOMYCIN Soluble.

Stop scours — and protect your profits the sure way.

Get your supply of AUREOMYCIN Soluble today from your veterinarian, druggist or feed dealer. Always keep it handy for immediate use.

AUREOMYCIN Soluble Oblets®

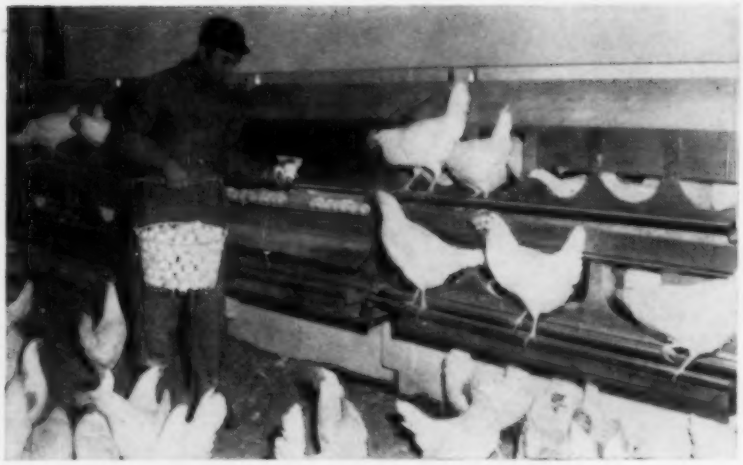
AUREOMYCIN Chlortetracycline Oblets provide a quick, measured-dose form of AUREOMYCIN for use in treating calf and pig scours, pneumonia, shipping fever and uterine infections.

They can be used in the *prevention* or *treatment* of these diseases — and can be given in three ways — (1) in drinking water, milk or milk replacer because they are *soluble,* (2) by mouth as tablets or (3) in the uterus.

For free literature, write to American Cyanamid Company, Farm and Home Division, 30 Rockefeller Plaza, New York 20, N. Y.

CYANAMID

AUREOMYCIN® CHLORTETRACYCLINE *More effective against more diseases* **Soluble**



In Egg Production...

Arsanilic Acid

makes the profit difference!

At last! Here's a real low-cost profit-maker for the poultryman. Gives you extra eggs on less feed; and best of all pays for itself many times over—leaves you more profit after you pay the bill!

In any well managed laying flock, the true profit difference comes from these two major factors . . .

- **Increased production**
- **Reduced feed costs**

That's where Arsanilic Acid can make the *profit difference* for you! Laying feeds containing Arsanilic Acid offer you the opportunity of shooting for the same results (and *profit difference*) that is on record at agricultural research centers . . .

7 to 10% more eggs—when Arsanilic Acid was added to egg feeds that were nutritionally adequate. That's 14 to 20 times the increase needed to cover the cost of the Arsanilic Acid.

Less feed per dozen eggs—In State College tests, Arsanilic Acid not only increased egg production but did it on less feed. In some tests, these feed savings were as high as 1.6 lbs. per dozen eggs. Another *profit difference* for you!

Pullets lay 7 days sooner—pullets fed on feeds with Arsanilic Acid started laying 7 days sooner. Compared to other test groups, birds getting feeds fortified with Arsanilic Acid grew and developed faster all the way!

Fights sub-clinical diseases—works much the same way as antibiotics by reducing the disease level—yet, Arsanilic Acid even improves the performance of feeds already fortified with antibiotics.

Test after test, shows that Arsanilic Acid works best under practical farm conditions where stress such as sub-clinical diseases are often present. That's why Arsanilic Acid makes even the "best" feeds better!

Arsanilic Acid is produced only by Abbott Laboratories and sold to feed manufacturers under the trade name of PRO-GEN®. The next time you buy poultry feeds of any kind, be sure they contain Arsanilic Acid!

If your feed dealer does not carry feeds with Arsanilic Acid, he can get full information by writing to Abbott Laboratories, Chemical Sales Division, North Chicago, Illinois.

701453

Abbott **Abbott Laboratories, Chemical Sales Division**

North Chicago, Illinois

Letters

(Continued)

• • • I admire the intestinal fortitude of a man whose income depends on the good will of the subscribers to his magazine and prints editorials based on principles instead of expediency even though his views may be unpopular.

Stick to your guns and print the truth as you see it. If some people do not agree with you at least they will respect you. . . .

Joe Abrahamson *Amarillo, Tex.*

We're glad to report that 88% of the letters commenting on "Straight Talk" are favorable.—T. A.

• • • Your editorials are getting better and better. Keep up the splendid work. I still say I'd like to see you in the U.S. Senate—even the White House in from four to eight years from now. We need a lot more of your kind of thinking to combat the mouthings of some of the knuckle-heads in Congress, in government, in both political parties, and especially in the leadership of some of the labor unions we are cursed with.

Jack Beater *Fort Myers, Fla.*

Brainwashed and Warped

• • • I am a small farmer in the heart of a coal field and have seen the minds of men brainwashed and warped by the propaganda of union organizers in a manner that would put a Communist to shame. It is easy to understand how Communism can take over a backward and illiterate people when you see right under your nose what can happen, by the same tactics, to a supposedly enlightened and literate populace. I'm not opposed to organized labor providing it could be carried out on a local basis or area basis where the funds collected stayed in the local of collection, instead of about 75 percent being sent to some central treasury where it is used as a power lever. This money doesn't ever benefit the union member. His benefits are paid by the consumer, he paying part of it, indirectly, out of his own pocket.

Charlie F. Wells *Esserville, Va.*

• • • May I join the hundreds of others who have been so aroused by your February, 1956, editorial and request a copy—either of the editorial or the issue? I seem to have every issue but the "right" one, though I enjoy them all. I am sending 15 cents and hope there are still some left.

Mrs. W. P. J. Harman *Staunton, Va.*

(Continued on page 12)

Which tractor stays at the barn?

One thing's for sure. When you own a Ferguson, it won't be the tractor you leave behind.

It'll be your favorite . . . on light jobs or heavy. On either, there's no better tractor for easy handling and low operating costs. Because the Ferguson is recognized as the one tractor with a completely integrated hydraulic system. No tedious, separate adjustments. You get full use of all your power—automatically.

When you're plowing, for instance: You can plow with 3 bottoms in most soils . . . at a cost the bigger, fuel-wasting tractors can't match.

Farmers generally sum it all up in one sentence by saying: "It's got the Ferguson System."

It's the System that gives you complete control. You can raise or lower implements . . . hold them in any position . . . maintain effective draft control . . . even change the speed of response.

That's how the Ferguson saves your job time and cuts operating costs. That's why we think you'll pick it for just about every tractor job. Why not see your Ferguson dealer? Talk performance. Talk trade. See him first . . . or last. Either way you can't lose. *Ferguson, Racine, Wis.*

Ferguson POWERED TO SAVE YOUR JOB TIME

Farmers asked Question after Question about Hi-D Ammonium Nitrate

Read the kind of down-to-earth questions that many farmers fired at us and you'll see why they decided to make Hi-D Ammonium Nitrate their first choice as a supplemental Nitrogen Source.

Q. What's this "Hi-D" and what's so new about it?

A. Hi-D stands for high density. Hi-D Ammonium Nitrate is a hard, dry fertilizer that's made by an exclusive, patented process. It's a denser product with the maximum moisture "squeezed" out of it before the granule is formed. There isn't another form of ammonium nitrate like it!

Q. What about storage?

A. Commercial Solvents Corporation guarantees that Hi-D Ammonium Nitrate will store well under normal conditions for one full year. And, by the way, that brings up another advantage of Hi-D. Being a denser, more compact material, it has less bulk, takes up less room in storage. 10 bags stack in the same space as 8 bags of other types of ammonium nitrate. That means you can get up to 25% more nitrogen in a normal hopper load.

Q. Well, how does this denser material perform in the spreader?

A. High density means a drier ammonium nitrate. And that means that Hi-D doesn't gum up, doesn't stick, clog, cake or bridge, even on soggy, steamy days.

Q. How does it spread? Hi-D looks different.

A. You're right, Hi-D *is* different. Note the controlled size and unique shape that assure smooth, even distribution in all types of spreading equipment under all field conditions. The beauty of it is that it really flows freely, spreads evenly and stays put!

Q. Doesn't this same high density make for slower action in the soil?

A. Absolutely not. Hi-D dissolves readily in soil moisture, goes to work fast. But as you probably know, Hi-D Ammonium Nitrate gives Two-Step Action. The guaranteed 33.5% N comes in two balanced "servings". You get 16.75% nitrate nitrogen that goes to work immediately for fast, vigorous starts, and 16.75% ammonia nitrogen for sustaining follow-up feeding. Interesting thing about Hi-D, it contains the kind of nitrogen in sodium nitrate *and* the kind in ammonium sulphate as well.

Q. It ought to be better than sodium nitrate and ammonium sulphate — it costs more per bag. What do you say about that?

A. No, no, it costs less! Sure, bag for bag it costs more, but you forget you're not buying bags, you're buying *N*. 100 pounds of Hi-D gives you as much nitrogen as 159 pounds of ammonium sulphate, gives you as much nitrogen as 209 pounds of sodium nitrate. Putting it another way, for 100 pounds of straight N you need over 600 pounds of soda, nearly 500 pounds of sulphate, *but only 298 pounds of Hi-D.*

Q. They say that ammonium nitrate is acid forming. Is Hi-D?

A. Acid forming is just another way of saying that growing crops remove calcium from the soil. Hi-D helps make big crops which take out more calcium than small crops. Of course, some products do include lime but it's an expensive way to get insufficient limestone. As you know, the lime in such products is only enough to neutralize the fertilizer. It's not sufficient to meet the important requirements of a sound, integrated liming program.

Q. Where does Hi-D fit in my fertilizer program?

A. Good question! It gives us a chance to stress mixed fertilizers. We don't sell mixed goods but we can't overemphasize their importance. Hi-D is not a substitute for mixed fertilizers. It's a supplement. Many crops take more nitrogen from the soil than can be put back readily in mixed fertilizers. The role of supplemental nitrogen is to satisfy this additional need. In many cases supplemental nitrogen is the lowest-cost way to get maximum profits. Hi-D Ammonium Nitrate is only one part of your program for lowering crop unit costs. You know better than we do that income goes down unless production per acre goes up. Fertile land is profitable land. Land fertility calls for soil testing, a liming program, the mixed fertilizer your dealer recommends — then, and only then, Hi-D Ammonium Nitrate as needed.

SEE YOUR DEALER. *Ask your dealer for a sample of this new high density material. Look for the GREEN & WHITE BAG. Put Hi-D to work this season. Test it side by side with any other nitrogen fertilizer you want to — on any crop, under any condition. You can trust Hi-D to do the job in the field and in the yield.*

Go In And See New Hi-D!

ASK FOR A SAMPLE

made in the South by

CSC COMMERCIAL SOLVENTS CORPORATION

344 William St., N.W., Atlanta, Ga. and Sterlington, La.

CSC also produces BACIFERM® Bacitracin Antibiotic Supplements, and PEAK® Anti-freeze

GRASS ACRES

feed more livestock

with an Allis-Chalmers Forage Harvester

• Direct cut for daily feeding

• Stored for drouth or winter use

More and more farmers are turning to daily direct cutting to avoid over-grazing and to control weeds. Cattle no longer hunt for feed—more energy goes into meat and milk. Surplus forage can be stored for later use as needed.

You can save and use more of your grass crops with a big-capacity Allis-Chalmers Forage Harvester. The yard-wide cylinder with its cut-and-throw action takes less power. Knives are protected against damage by the stone-stopper safety clutch, and are power-sharpened right in the machine.

See your Allis-Chalmers dealer about this money-making way to produce high-quality forage and make *your* grass acres feed more livestock.

ALLIS-CHALMERS, FARM EQUIPMENT DIVISION, MILWAUKEE 1, WISCONSIN

ALLIS-CHALMERS

Forage Harvesting Equipment

***LISTEN!** National Farm and Home Hour Every Saturday—NBC*

Letters

(Continued)

• • • I would like to have 15 copies of your December editorial . . . one copy of your November editorial. I loaned my November FARM AND RANCH to a friend and he never returned it. . . .

L. F. Reed Winston Salem, N. C.

Who's a Farmer?

• • • Businessmen, professional people and even politicians and city racketeers are pumping more and more capital into farming. Recently it was reported that Senator Kerr and his oil business associate had bought the Slick herd of Angus cattle, at an estimated cost of near a half million dollars.

In this case oil interests were involved in both sides of the deal, but it now requires an oil fortune or a genius to enter the registered cattle business. Non-farm capital has taken over so much farm land, comparisons of total farm income to farm population no longer represents valid per-capita farm income. Unfortunately, this diversion of capital to agriculture deprives distribution and industry of an important source of the venture capital for expansion.

Possibly that is one of the reasons that rising distribution costs nearly offset the declines in the price of farm commodities. Industrial profits are good, but many of its former stock buyers now prefer farm investments. All of this despite the fact that it requires a greater capital investment to gainfully employ a wage earner in agriculture than in industry.

The diversion of capital hurts the farmer in three ways: competition is worse, it may drive him from the farm and finally he has a reduced opportunity for finding off-the-farm employment. Farmers displaced by Senator Kerr's cattle venture in Oklahoma may not suffer the last mentioned disadvantage since the good Senator is strong for a government subsidy to all of his good people. . . .

H. P. Warhurst Grandfield, Okla.

• • • A subscription to your magazine was one of our nicest Christmas gifts from a friend. Your editorial is the first thing we read. They are always good, even the July issue and we are good republicans. "Facts are facts" someone said. Sure wish Washington could get straightened up and "fly right."

Mrs. Harlen Ricke Mt. Home, Ark.

(Continued on page 20)

WIN THIS 1000-HEN CAGE HOUSE

in Purina's Super Startena Sweepstakes

EACH WITH

10 houses . . . 1000 cages . . . 1000 top-bred pullets Given Away . . . FREE

NOTHING TO BUY OR WRITE!
It's a *FREE DRAWING* for everybody who plans to start chicks.

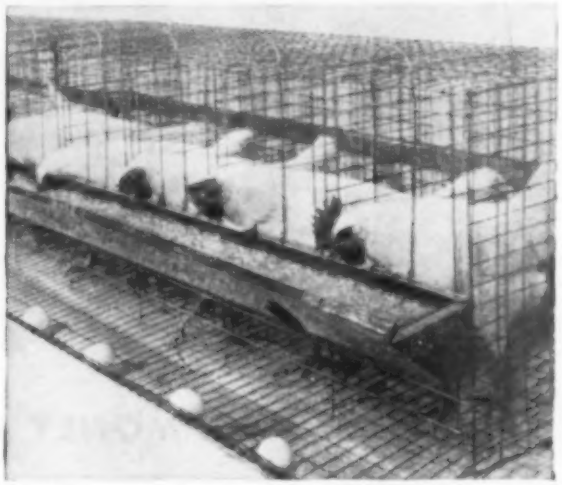
TEN FIRST PRIZES . . . think of it! TEN Reynolds Cage Hen Houses, each equipped with 1000 Pockman cages filled with 1000 top-bred, ready-to-lay pullets. Everything to set you up solidly in one of the most exciting new businesses today. You have exactly as good a chance as anyone else to win one of these ten fabulous prizes.

HERE'S ALL YOU DO . . . Take (or mail) this entry to your Purina Dealer, or hand it to the Checkerboard Service Man. Limit, one entry per adult over 21.

THESE ARE THE RULES:

1. Your Dealer will mail your entry to Purina, where a drawing for the 10 winners will be made by Don. M. Turnbull, Executive Secretary of the American Poultry and Hatchery Federation.
2. Contest is open to all folks in Continental United States who plan to start chicks, except employees of feed manufacturers and dealers and their families.
3. Contest ends and all entries must be in your Purina Dealer's hands by close of business on Saturday, March 16. Subject to federal, state, and local regulations.

FEED PURINA . . . YOU CAN DEPEND ON THE CHECKERBOARD



Each house equipped with 1000 POCKMAN cages and 1000 top-bred pullets

Think of the fun and profit you'll have if you win! Winners will be notified by wire, and the list will be posted at your Dealer's. Cut out your entry blank right now and turn it in real soon.

SUPER STARTENA SWEEPSTAKES ENTRY

Take (or mail) to your Purina Dealer, or hand to the Checkerboard Service Man.

My name .....

RFD or Street .....

Town ..... *State* .....

I plan to start ..... *chicks about* .....
(*number*) (*date*)

Purina Dealer ..... *Town* .....

YOU SAVE MONEY WITH LION IN YOUR FIELDS

Lion Ammonium Nitrate is

FOR LOW-COST NITROGEN, LION is the brand. Lion Ammonium Nitrate is guaranteed to contain 33.5% nitrogen, which means low-cost nitrogen for your crops . . . more for your money in bigger crop yields.

FOR MORE PRODUCTION, Lion Ammonium Nitrate contains *quick-acting* nitrate nitrogen that gets crops started fast . . . and *long-lasting* ammonia nitrogen that resists leaching, feeds crops steadily.

FOR EASIER SPREADING, Lion Ammonium Nitrate is in pellet form. These pellets are specially coated to withstand caking. Result: Lion brand flows freely, spreads evenly after shipment or storage.

*Trade-mark of Monsanto Chemical Company

ow-cost solid nitrogen fertilizer

IE SPECIAL LINING of the Lion bag otects your fertilizer against caking. on Ammonium Nitrate is *guaranteed* flow freely—*not for just a year, but til used*—when you follow storage rections on the bag.

WORLD'S LARGEST. Lion Ammonium Nitrate is made by Monsanto Chemical Company, world's largest producer of prilled ammonium nitrate—and *your* most reliable source of *low-cost* nitrogen. Save money! Buy Lion!

See your fertilizer dealer—ASK FOR LION brand...guaranteed 33.5% nitrogen.

MONSANTO CHEMICAL COMPANY
INORGANIC CHEMICALS DIVISION
ST. LOUIS 1, MISSOURI

GROW MORE PROFITABLY... Weed Killers • Brush Killers • DDT and Parathion Insecticides • Medo-Green® Silage Preservative • Phosphates (Liquid and Solid)

MONSANTO ®

By BILL HUMPHRIES

What's Happening to Flue-cured?

Here's how USDA, Congress and growers hope to ease the acute ails besieging the flue-cured tobacco industry

CAN flue-cured tobacco growers get their business back on a sound basis in 1957?

If so, they'll have to overcome a two- to three-year lag in catching up with changes in market demand. For, while demand has been moving rapidly toward darker, heavier tobacco, growers have been producing an increasing proportion of mild, bright, thin leaf—some of it so low in flavor and aroma that one manufacturer said he questioned "whether it should be even called tobacco."

Buyers Don't Buy

Since flue-cured leaf has been plentiful the past two years, buyers—particularly export dealers—have tried to avoid purchasing the mild, flavorless tobacco on warehouse floors. So, about one-fifth of the large 1955 and 1956 crops ended up under price support loan.

Many export buyers, including some of the largest in the business, complained this past season that they couldn't find enough leaf of acceptable quality to meet their needs. They said foreign sales of U. S. flue-cured depend on its superior flavor and aroma, since this leaf is blended with "neutral" tobacco grown in other parts of the world.

Growers realize 1957 will be a crucial year. To hold their markets, they must produce what the trade wants.

To encourage changes in production practices, USDA has announced that price supports on the 1957 crop will be adjusted grade by grade, in line with market demand. It also said growers who produce any of three "undesirable" varieties—known as 139, 140, and 244—will be entitled to price support on their *entire crop* at only one-half the prevailing rate.

Since the "lung cancer scare" hit the nation, millions of Americans have turned to filter-tip cigarettes—which require stronger tobacco to maintain their flavor—or quit smoking.

As cigarette consumption declined, flue-cured acreage allotments were reduced. Growers resorted to close spacing, heavy fertilization and use of new high-yielding varieties. Per-acre yields jumped.

Thus, in spite of acreage controls, flue-cured supplies are at an all-time high.

Congressional Cure Coming?

Efforts are being made at this session of Congress to change the control program from a straight acreage basis to a combined acreage-poundage system which would be self-adjusting from year to year. (See page 50.)

USDA officials are leaning strongly toward the proposed acreage-poundage plan ("Washington Wire," January issue), but action by Congress and two-thirds approval by growers in a referendum would be required for it to go into effect.

Now Department officials say that if the acreage-poundage system is decided upon, they would attempt to exclude 1955 and 1956 yields in establishing poundage allotments for individual farms. The purpose would be to avoid "rewarding" growers who have produced exceptionally high yields of leaf for which there was little or no market demand.

There's a fair chance Congress will amend the soil bank to help flue-cured growers out of their difficulties. It may increase the Acreage Reserve payment rate on flue-cured and burley from 18 to 24 or 25 cents a pound, to encourage removal of tobacco land from production. Also it may raise the soil bank appropriation limit for all types of tobacco from 45 to 90 million dollars.

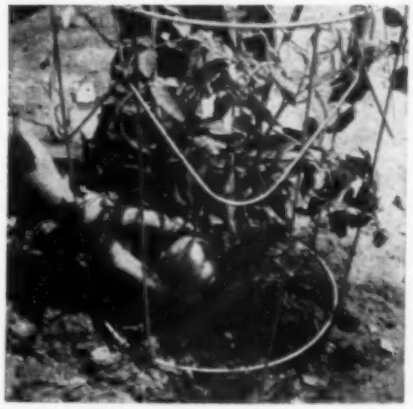
These steps are favored by House Agriculture Chairman Harold D. Cooley (North Carolina), who says tobacco growers haven't received their proportionate share of soil bank money. A number of tobacco-state Congressmen share his views.

Some Congressmen say they'll attempt to have flue-cured growers compensated for part or all of the 20 per cent acreage cutback ordered for 1957. Regardless of what is or isn't done *(Continued on page 38)*

STORE SILAGE. J. A. Odum, Supt. of Tenn. Plateau Exp. Sta., examines silage stored in plastic bag on the station. Method is similar to storing in temporary silo made of snow fence lined with building paper, but silage keeps longer and there's no spoilage.

Look what PLASTIC FILM can do!

A cost-cutter and labor-saver, it's getting more practical every day



INDIVIDUAL PLANT COVERS. Each plant in its own little greenhouse when light-weight sheet plastic is shaped over wire forms like this, to get plants started earlier or protect them against late season frosts.

PLANT ROW MULCHING. Useful for weed control and moisture conservation as well as to help plants get earlier start, by absorbing sun's heat and raising soil temperature, strips of plastic film like these are now widely used as mulch. Plants are placed through holes.

PLANT BED COVERS. Univ. of Ky. uses these to get vegetables started earlier without danger of frost, can also use them to carry low-growing fall vegetables safely past early fall frosts. Light-weight plastic is spread over wire frames, anchored to ground with dirt. More about what you can do with plastic film for these uses on page 40.

Tree Talk

by

Will Rusch

Way back when, I remember my dad telling me "Money doesn't grow on trees" whenever I tried to convince him I needed some extra folding stuff.

Well, the notion that "money doesn't grow on trees" may have been true then – but it certainly doesn't stand up today, thanks to the tremendous growth of tree farming and the recently enacted Soil Bank program.

As a matter of fact, I don't know of any place this side of the U.S. Mint where money is produced surer or steadier than on a Tree Farm. Apparently, more and more farmers feel this way too, because hundreds of them are turning their marginal and excess croplands to trees every month. By actual count there are more than 8,500 Certified Tree Farms in the U.S., an increase of 35 per cent since 1954!

If you're interested in this profitable program, you'll find lots of helpful data on tree farming at your nearest McCulloch dealer's store. McCulloch dealers, you know, are taking an active part in the Tree Farm movement by working with the American Forest Products Industries in making their stores available as information centers.

Any remaining thoughts I might have harbored that it's a man's world were rudely dashed recently upon hearing of a remarkable woman named Mrs. Flora N. Thomas. Seems that Mrs. Thomas, who manages a 140-acre farm at Plainfield, Indiana, faced the problem of cutting down a number of dying elm trees on her 18-acre woodlot.

Well, with the aid of her son and a McCulloch chain saw, Mrs. Thomas cleaned out the old elms, used some of the wood to heat her 7-room house and sold the rest for $300!

Says Mrs. Thomas, "My McCulloch saw has given splendid service with very little expense. We could not be without it. Every farmer should own one."

Oh, I almost forgot . . . Mrs. Thomas who handles her McCulloch Model 33 like a logger, is a hale and hearty 68 years of age!

If you haven't already done so, I suggest you send me a postcard today for your free copy of "*How To Make Money With A Chain Saw*," an illustrated booklet we've just issued that you're sure to find helpful in cutting and tending your trees. Just write to me, Will Rusch, McCulloch Tree Topics Bureau, 6101 W. Century Blvd., Los Angeles 45, Calif., and I'll get it in the mail to you promptly.

5-6028 © 1957

WASHINGTON WIRE

By BOB NICHOLS
From the Nation's Capital

Corn Program: The opening round

Washington, D. C.—Did corn growers really "endorse" the base acreage-soil bank program when 61.2 percent of the votes in the December 11 corn referendum were cast in favor of it? USDA officials think so. Or was it just that they voted for it as less undesirable than the acreage allotment program offered as the only alternative on the ballot?

▶ There's doubt how many corn farmers really wanted the base acreage program. But the 51 million acres (with lower supports) it offered as the national allotment for corn didn't sound as bad as the 37.2 million acres (with slightly higher supports) offered under the alternative acreage allotment plan, which automatically goes into effect unless Congress comes up with a completely new corn program before planting time.

Hardly anybody really likes the acreage allotment program. Secretary Benson considers it unworkable. Farm leaders consider the 37.2 million acre national allotment "unrealistic." With the low individual allotments it sets, few corn farmers would pay any attention to it at planting time, even if USDA continued to withhold price supports for non-compliers.

▶ But corn farmers have had reason to believe that both Secretary Benson and corn-state Congressmen would press for a new corn program if the base-acreage program failed. They could hope to get a new program which would be better than either of the alternatives offered on the ballot December 11. The Administration wants Congressional approval of a program similar to the base acreage-soil bank plan offered on the ballot; some corn-state Congressmen can be expected to hold out for guarantees of minimum support levels and minimum acreages.

Remodel or Rebuild?

Nearly everybody now agrees that *some* kind of new corn program is necessary. With most corn farmers likely to ignore the acreage allotment program—preferring to grow all the corn they want and take their chances on prices rather than comply with the harsh acreage limitations—it's hardly a control program at all. And, when Congressional debate gets under way on what kind of program it'll be, the door's opened for Congressmen to try for revisions in the programs for tobacco, cotton and other crops, too.

▶ The flexible vs. rigid support debate isn't expected to warm up this year. But tobacco-state Congressmen still want to force USDA to raise soil bank rates for flue-cured tobacco. Cotton-state Congressmen are still accusing the Administration of rigging the soil bank in favor of Corn Belt farmers in 1956, although USDA says it isn't so; they'll want assurances it won't happen again. And a fight over cotton support levels can break out in the halls of Congress if Secretary Benson announces a lower level for the '57 crop.

▶ Before it's all over, there may be some effort to get peanuts back on the soil bank eligibility list, and perhaps to get grain crops (grain sorghums, oats, etc.) made eligible, too, although such an effort probably wouldn't get very far.

The latest first for the Southeast

Ful-O-Pep Chick Starter

PROMOTES

NEW Hi-Fi PERFORMANCE

Better living for your chicks

It's time to get your baby chicks! . . . time to plan for their future. Give your baby chicks the *best life possible*. Start 'em on new Ful-O-Pep Chick Starter . . . the feed that promotes NEW HI-FI PERFORMANCE!

GOOD HEALTH . . . Ful-O-Pep is a "gold mine" of nutrients . . . gives your chicks *added life protection*. Many poultrymen report up to 100% livability. Only two pounds per chick is needed to grow 'em big and healthy.

SOUND GROWTH . . . Ful-O-Pep gives chicks the vital, *chick-building nutrients* they need to help 'em develop into sound, sturdy, pullets!

FULL OF LIFE . . . Ful-O-Pep is highly-fortified to give baby chicks *extra get-up-and-go*. Your chicks will enjoy a better life if you feed 'em new Ful-O-Pep Chick Starter.

Grows America's Best Pullets

For years and years in the National Egg Laying Tests – birds grown on Ful-O-Pep averaged laying more eggs, and bigger eggs, than birds grown on other feeds.

7 LBS. FUL-O-PEP . . . You buy only 2 lbs. Chick Starter – 5 lbs. Growing Mash, per bird on range, on the Ful-O-Pep Restricted Feeding Plan. Saves up to 14 pounds total feed, per bird, over forced feeding plans.

SAVE $400 . . . You save about 40¢ per bird – $400 per 1000 birds – by following the famous Ful-O-Pep Restricted Feeding Plan. It's *easy to follow* . . . grows big, productive pullets.

Call your Ful-O-Pep Dealer Today!

New High-Speed, Low-Cost
PTO SIDE RAKE *by* JOHN DEERE

You'll Save Leaves with the 3-Point or Semi-Integral 350 RAKE

LOW INITIAL COST . . . high-speed performance . . . leaf-saving crop handling . . . versatility . . . and cost-cutting dependability—that's a quick summary of the outstanding new John Deere 350 PTO Rake.

The new 350 rakes a full 7-foot swath —*clean*. Its right-angle reel moves hay forward 50 per cent less than conventional rakes, saving more leaves. Its 4-bar reel, with less tooth-bar contact, reduces leaf shattering. Teeth are spaced closer together on each bar, assuring cleaner raking.

Reel Speed Matches Crop

Different tractor gears and throttle settings match the reel speed to the volume of the crop exactly. In leafy crops, the John Deere 350 rakes up to 6½ mph –faster in crops where leaves are no problem. The versatile John Deere 350 Rake is available for 3-point hitch or semi-integral operation. In other words, the 350 Rake works with practically any tractor. See your John Deere dealer for complete information. Mail coupon today for free folder.

The 3-Point 350 *is shown above in the field and in transport. It works with any standard 3-point hitch and with John Deere 800 Series Hitches. Notice the exceptional clearance in transport.*

A simple hitch *adapts the 3-point 350 to semi-integral operation (above). Hydraulic or manual lift is available. The semi-integral 350 Rake works with any tractor equipped with a standard power take-off.*

JOHN DEERE

"WHEREVER CROPS GROW, THERE'S A GROWING DEMAND FOR JOHN DEERE FARM EQUIPMENT"

Send for **FREE** Literature

JOHN DEERE • MOLINE, ILLINOIS • DEPT. R 10

Please send me free literature on the new John Deere 350 PTO Rake

Name_____ ☐ STUDENT

R.R._____ Box_____

Town_____ State_____

Letters

• • • Much has been said during the past few years about low farm prices and the resulting unfavorable position that confronts the farmer. We think that we have a practical solution to part of this problem and would like to call your attention to the following facts and figures. . . .

. . . During the 27-year period of 1900-1927, before auction markets and direct buying points became prevalent, the yearly average price for hogs was higher than the yearly average price for cattle 16 of those 27 years. Then during the next 27-year period, 1928-1954, the average yearly price paid for hogs was higher than cattle only one year.

The other impressive thing is that during the first period, 1900-1927, the great bulk of the hogs, 85-90 percent, were sold in price-establishing terminal markets and that during the next 27-year period, the number of hogs sold on these price establishing terminal markets decreased to only 35 percent of the total number of hogs marketed. This led to the situation where these 35 percent are making the market for all hogs sold, with the result that only 35 percent of the farmers bargaining power is being used to establish hog prices.

These USDA figures indicate that this reduction in marketing through Central Markets has cost the hog farmer $4.00 per hundredweight for all the hogs he has sold during the past few years. In 1955 alone, when 74,472,000 hogs were marketed in the U.S. at an average weight of 226 lbs. per hog, he could have added $673,226,880 to his income. . . .

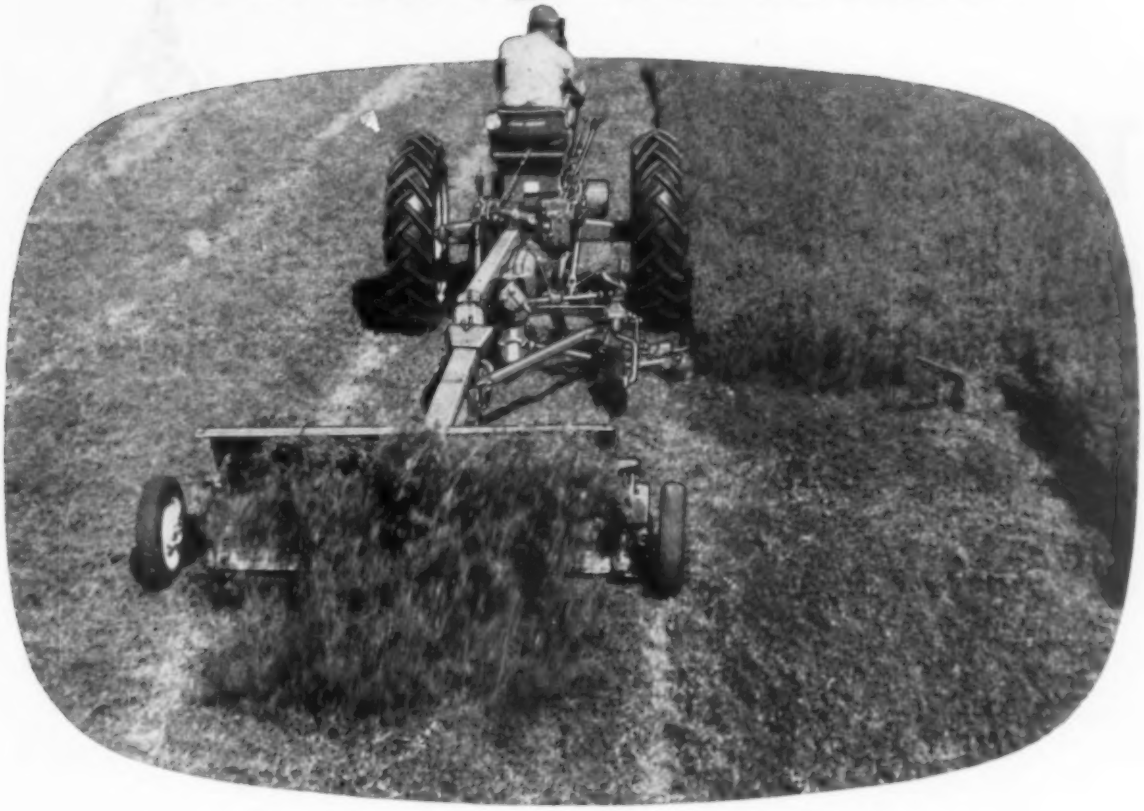
A timely example of this situation may be had by studying the USDA Chicago Livestock Market Report for October 15th, 1956. The 12 major market actual receipts for that day were 172,000 head of cattle, and 92,000 head of hogs. Even with the largest run of cattle in over 15 years, Chicago still had one of the highest top prices in recent months, $33.00 per cwt. for a load of prime steers. With an average run of hogs for the 12 markets, Chicago had a top price on hogs of only $16.50. According to figures released for 1955, 78 percent of the cattle, and 35 percent of the hogs were sold through terminal markets. With 35 percent of all hogs marketed that day establishing the price, it stands to reason that the price was not as high as it should have been, and the scattering of hogs over thousands of buying points is one of the big reasons.

*Herschel M. Hunt & others**
Bourbon Stock Yds. Louisville, Ky.

*Names of other signers on request.

Make Better Hay

...Cut Curing Time in Half—



Use the *Once-Over* JOHN DEERE MOWER-HAY CONDITIONER Combination

Now you can cut and condition hay in one fast operation. New hookup and drive equipment adapts the John Deere Hay Conditioner for use with No. 5 and No. 20-A Mowers. As a result, one man with one tractor cuts and conditions hay at the same time.

When you condition hay with the John Deere Hay Conditioner, you save more valuable leaves and small stems . . . you cut curing time in half . . . you make higher-quality hay that brings a better return whether you feed or sell. Bales made of conditioned hay are firmer, weigh more, and are easier to handle.

See your John Deere dealer in time to put a new John Deere Hay Conditioner on your farm next haying season.

Above you see the No. 5 Mower and Hay Conditioner at work together. The Conditioner follows directly behind the tractor for easier handling.

ASK ABOUT THE JOHN DEERE CREDIT PLAN

SEND FOR FREE LITERATURE

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Please send me a free illustrated folder on the John Deere Hay Conditioner.

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JOHN DEERE

"WHEREVER CROPS GROW, THERE'S A GROWING DEMAND FOR JOHN DEERE FARM EQUIPMENT"

The MILLER BILL

What it means to you

Here's what you need to know about this important legislative act

By Robert Lee

THE so-called Miller Bill (Public Law 518, the Pesticide Chemicals Amendment to the Federal Food, Drug and Cosmetic Act) isn't actually the villian the cartoon on this page makes it look like. But it's a piece of legislation that'll affect practically any kind of edible crop you produce this year.

Provisions of the Miller Amendment, which became fully effective last summer, don't say what you can and can't do on your place. They do authorize the Food and Drug Administration of the federal government to *seize or condemn* any "raw agricultural products" which are found to have excessive residues *if they are being shipped in interstate commerce*. And the individual states have authority to handle *intra-state* shipments in a similar manner, although it's doubtful that many of them will use it.

"Raw agricultural products" means any unpeeled fresh fruits or vegetables, or any grain, nuts, meats, eggs, raw milk or similar food products which have not been processed or manufactured.

Purpose of the Miller Amendment is to provide for exact specifications of how much of each insecticide or fungicide or herbicide can still be present on any raw agricultural product at the time it moves into interstate commerce.

Most raw agricultural products you sell are as likely to go into shipments designed for "interstate commerce" as not. So, practically anything you sell or ship *could* be seized by FDA officials if it has "excessive pesticide residues." Obviously, if you have already sold it to somebody else, it's not your loss if it's confiscated.

However, FDA inspectors can and sometimes may pick up samples on your farm or at the produce market or other shipping point and make an examination for toxic residue from the samples. They're most likely to do it (openly, not secretly) in local areas where there's known indication that sprays or dusts might be in use in such a way that excessive residues remain on the products at the time they go to market.

Otherwise, it's up to your conscience and your reputation to avoid selling products which would be dangerously toxic on somebody's table.

There are three important ways to be sure your edible farm products sprayed or dusted during the growing season are within the allowable tolerance limits of residue on the crop at harvest time:

1. Use an insecticide only when it is approved for use on the particular crop you're using it on. Make sure it has an approved label (on the container) and residue tolerance established. Make sure you observe the precautions printed on the label.

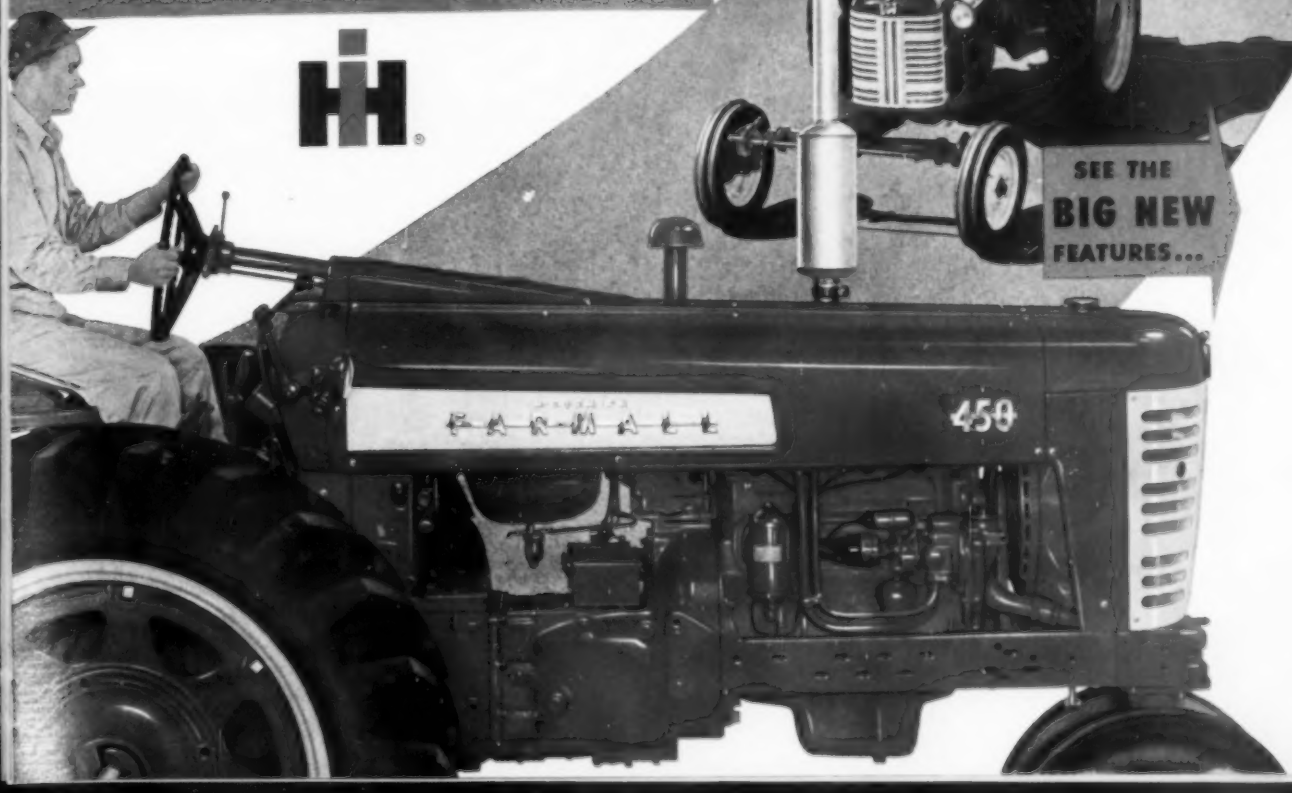
2. Spray at no more than the rates recommended on the label.

3. Allow enough days exposure time between spraying and harvest time to permit the residues of the insecticide to decline to within the permissible limit.

Here comes the

POWER LINE for '57

"POWER put to BETTER USE!"



SEE THE BIG NEW FEATURES...

now

POWER put to BETTER USE

IN NEW McCORMICK® FARMALL® and INTERNATIONAL® tractors

Speed your work . . . slash your costs in 1957! Now, more powerful IH tractors make power more usable than ever before! Now, engine power put to better use takes the sweat and cost out of dozens of jobs that used to wear you out and waste your time and money. Try new Fast-Hitch with Traction-Control, power-spaced drive wheels, improved precision Hydra-Touch® and other 1957 advancements for many IH tractors. See how ten basic tractors, with wide choice of options—*models unlimited!*—make it easy to own today's most efficient power . . . made-to-order for you!

NEW

INCREASED POWER

Seven of 10 new IH tractors have stepped-up power for '57! This gives them more snap and go . . . greater reserve power for hard pulls on tough jobs. This power increase, which ranges up to 12% in the 2-plow Farmall 230, pictured, also gives you more usable power at higher speeds. This is a big help on jobs like harrowing or rotary hoeing.

NEW

POWER SPACED WHEELS

Now, space tractor rear wheels fast with engine power. Quickly match rear wheel tread of Farmall 350, 450, or International 350 Utility tractors to the implement or the job. Adjust tread as much as 2 feet—without removing or reversing wheels.

PLUS: Improved "feather-action" Hydra-Touch . . . auto-type steering wheel . . . reduced effort clutch pedal . . . safer rear lighting—these are other IH advancements for '57!

NEW

FAST-HITCH with TRACTION-CONTROL

Now plow faster—far easier than ever. New Fast-Hitch with Traction-Control—for Farmalls 230, 350, 450 and International 350 Utility—gives added ground grip that grows with the load! It *continuously* applies just the right amount of traction-gaining weight on drive wheels to maintain full-depth plowing. Handy lever increases or decreases weight transfer to match all soil conditions.

New "Pilot Guide"* indicates plowing depth and amount of weight transfer needed. Back . . . *Click!* . . . and Go hitching is retained. You can control all cultivator gangs with only one hydraulic cylinder.

NEW

DIESEL POWER

Now, the Farmall 350 and the International 350 Utility tractors come in diesel models that can cut your fuel bills in half. Like the Farmall 450, these tractors now give you a choice of gasoline, diesel, LP gas or distillate.

4 more ways IH power is put to better use

Increase pull-power up to 45%—on-the-go—with Torque Amplifier drive. Get two speeds in each gear—*10 forward speeds*—farm non-stop!

Get uninterrupted pto power with *completely* independent pto. Team it with Torque Amplifier drive for "separate engine" performance of pto-driven machines.

Power-control implements with "live," two-way Hydra-Touch hydraulics. New feather-action gives you more precise regulation of equipment.

Power-steer with one hand even when operating a front-mounted loader. This frees your other hand for speedy, on-the-go equipment control.

Pick YOUR Power Partner...

Choose from

AMERICA'S TOP TEN

to fit your needs exactly

NEW 1957 FARMALL TRACTORS

New Farmall Cub®—1-plow tractor. Fast-Hitch. Touch-Control hydraulics. Cubi-Vision. Low cost . . . big-tractor features.

New Farmall 130—1-2-plow tractor. Increased power. Fast-Hitch. Touch-Control. Cubi-Vision. New deluxe seat.

New Farmall 230—2-plow tractor. Increased power. Improved Hydra-Touch. New Fast-Hitch with Traction-Control.

New Farmall 350—3-plow tractor. Increased power. New Fast-Hitch with Traction-Control. Improved Hydra-Touch. New diesel.

New Farmall 450—4-5-plow tractor. Increased power. New Fast-Hitch with Traction-Control. Improved Hydra-Touch.

NEW 1957 INTERNATIONAL TRACTORS

New International Cub® Lo-Boy—1-plow tractor. Touch-Control. Fast-Hitch.

New International 130—New increased power. Heavy-duty front axle. New foot accelerator. Touch-Control. Fast-Hitch.

New International 350 Utility—3-plow tractor. New increased power. New Fast-Hitch with Traction-Control. New diesel.

New International W 450—4-5-plow. Torque Amplifier. Increased power. Improved Hydra-Touch. Gasoline, LP gas or diesel.

New International 650—6-plow tractor. Improved Hydra-Touch. Hand clutch. Wider fenders. Gasoline or diesel models.

Now, pick your power partner from the widest selection of tractor sizes, models, and options ever offered. Whatever your acreage, your crops, there's an IH tractor and matched McCormick equipment to bring work-speeding, cost-cutting efficiency to all your farming jobs. This is another way that IH helps you put power to better use on your farm!

See how a NEW IH TRACTOR puts power to better use on your farm!

There's a faster, easier, lower-cost way to farm in '57! You'll find it at your IH dealer's. His new line of Farmall and International tractors uses power in new ways to boost efficiency and cut costs. They're tractors you can drive with pride . . . own with profit! **Mail the handy coupon!** Get all the facts about the new Farmall or International tractor that fits your farm . . . at your IH dealer's. Or your IH dealer will gladly demonstrate.

Send Coupon TODAY!

International Harvester Company
P. O. Box 7333, Dept. FR-2, Chicago 80, Ill.

Please send me free information on the New _____ tractor listed above. (Model)

☐ Yes, I'd like to see how this tractor performs on my farm. Please arrange a demonstration—at NO obligation.

Name _____ ☐ Student

Address _____

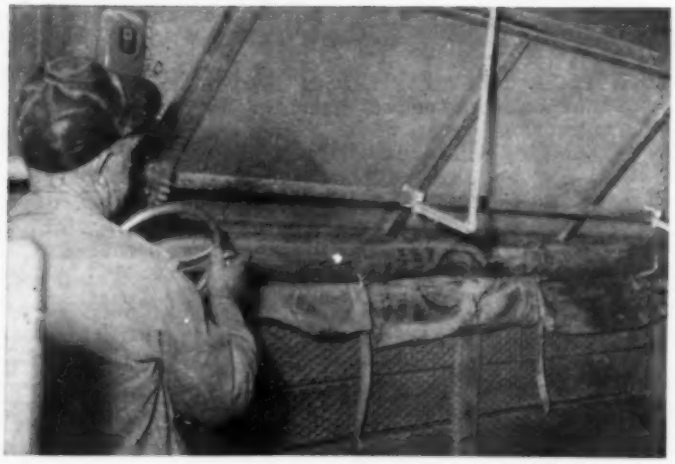
Post Office _____ State _____

My IH dealer is _____

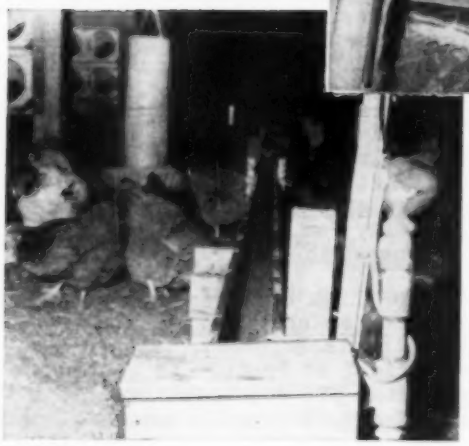
SEE YOUR INTERNATIONAL HARVESTER DEALER

International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Construction Equipment—General Office, Chicago 1, Illinois

Take-it-Easy Poultry Housing



EASY VENTILATION: When manager W. F. Glanton gives a few easy twists, this wheel opens windows all along one side of poultryman Mays Montgomery's efficient broiler house near Athens, Ala.



EASY FEEDING: A touch of the button fills automatic feed hopper from overhead bulk feed bins in Montgomery's breeder flock houses, and fills feeders on both sides of the 210-ft. houses. *Photos: Bob Nichols*

EASY WATERING: Float valve in box in foreground keeps watering troughs in all of Montgomery's hen house units; heating cable keeps water at drinkable temperature during winter.

ECONOMICAL, WORK FREE, WORRY FREE, VACCINATION

for

NEWCASTLE DISEASE and INFECTIOUS BRONCHITIS

DR. SALSBURY'S

WAVAC

STABILIZED, DRINKING WATER VACCINES

IT COSTS ABOUT HALF A CENT A BIRD per vaccination and you save hours of time and work, when you let *birds vaccinate themselves with* Dr. Salsbury's WAVAC in the drinking water. You needn't worry either, WAVAC has been proven highly effective on millions of birds because:

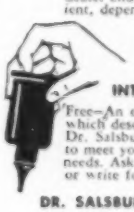
...INFECTIOUS BRONCHITIS VACCINE Contains NEW, mild L-2 virus

...NEWCASTLE DISEASE VACCINE Contains FAMOUS, mild B-1 virus

...ALL WAVAC VACCINES contain a special stabilizer to maintain adequate dosage in the water to provide vaccination.

(CHOOSE FROM THREE TYPES, each identified by color: WAVAC *Infectious Bronchitis Vaccine*; WAVAC *Newcastle Vaccine*; WAVAC *Combination Newcastle Disease and Infectious Bronchitis Vaccine* (with both L-2 and B-1 mild virus strains).

LET YOUR DR. SALSBURY'S DEALER HELP YOU . . . take the work and worry out of vaccination for Newcastle Disease and Infectious Bronchitis. Consult your Dr. Salsbury's dealer and plan to vaccinate with convenient, dependable, low cost WAVAC.



ALSO AVAILABLE
DR. SALSBURY'S
INTRANASAL VACCINES

Free—An elaborately illustrated book which describes the various Dr. Salsbury's vaccines available to meet your particular poultry raising needs. Ask your Dr. Salsbury dealer, or write for your copy.

DR. SALSBURY'S LABORATORIES
Charles City, Iowa

Nation-wide service to the poultry industry

Dr. SALSBURY'S

COMPARE

See how the regular use of Chilean Soda corrects acidity and maintains favorable pH, (left). Fertilizer used at right contained no sodium.

and you'll choose CHILEAN NITRATE OF SODA

Chilean Soda is a rare natural combination of nitrate nitrogen, sodium and minor elements. Its extra values distinguish it from other nitrogen fertilizers and account for its remarkable efficiency in the production of fine crops.

The effectiveness of a nitrogen fertilizer for top-dressing and side-dressing depends almost directly on the proportion of nitrate nitrogen it contains. In Chilean Soda, the nitrogen is 100 per cent fast-acting nitrate—ready to work as soon as you apply it. Chilean Soda has sodium and minor elements, too. Sodium destroys soil acidity, substitutes for potash and calcium when necessary, helps plants make better use of other plant foods.

Where the soil is too acid; where potash is deficient or where the available phosphate supply is low; where the crop needs quick help; or where one or more of the minor elements is lacking, Chilean Soda has no equal.

There is nothing to compare with Chilean Soda for top-dressing and side-dressing. Test it—compare it—and you'll find it is the most economical and efficient nitrate nitrogen fertilizer you ever used. **Look for the Bulldog on the Bag!**

Livestock Letter

the Latest-First

TO COMBAT CANCER EYE problem, it's best to select offspring of older cattle that are sound-eyed at advanced ages, says N. Mex. A&M. About 25 to 30% of cancer eye susceptibility is heritable. Animals that develop cancer at 6 yrs. of age are more susceptible than those with sound eyes at 10 yrs. or older. After 4 yrs. percent of incidence increases with age.

IOWA STATE COLLEGE'S famous new economy supplement has out-performed standard cattle feeding supplements in 3 new tests. New supplement gets practically all protein from urea. One ton contains 1,150 lbs. dehydrated corncob meal, 400 lbs. blackstrap molasses, 200 lbs. urea, 110 lbs. dicalcium phosphate, 75 lbs. limestone, 40 lbs. salt, 20 lbs. stilbestrol premix, 5 lbs. trace minerals. It's fed at rate of 1 lb. daily. Cost: $57 a ton at time of experiment.

COWS NEED SHORT VACATIONS but not long ones. E. W. Neasham, La. dairy specialist, says state DHIA records show that cows milking more than 300 days a year produced $150 more per cow than those milking fewer than 300 days.

MEXICAN CATTLE BUYING PROGRAM isn't helping producers much, it turns out. Ranchers from south of the border are buying only high-grade registered breeding cattle; commercial producers don't benefit.

YOU'LL BE PAYING MORE for feed and livestock shipments by rail as result of general rail rate increases. Final ICC approval may permit railroads to raise freight rates most or all of the total of 22% increase they've asked for.

SPRING PIG CROP now looks like it'll be 2% smaller than a year ago. Latest figures indicate it'll be about 52 million head. Last year it was 53.1 million, which was 8% under the year before. Conclusion: it still looks like a definite easing of pork oversupply. However, farrowing in late spring & early summer may be ahead of same period last year. Producer with the early pigs will fare the best.

SOIL BANK MAY AFFECT LIVESTOCK industry 3 ways in next few years, predicts USDA's mktg. specialist Harold Breimeyer. It'll prevent excess production, reduce carryover stocks of feed grain and gradually bring capacity for feed and livestock production into balance.

PERMISSION FOR EMERGENCY GRAZING of Acreage Reserve land will probably be extended into spring. Extension thru Jan. 31, authorized in Dec., was to give time for "re-examination" of whether to continue emergency grazing in the 678 counties where it's authorized because of drouth conditions.

New bonus-benefit

bīfuran

nitrofurazone & furazolidone

in starter feeds

saves chicks from coccidiosis

- • • • feeds away coccidiosis problems, helps develop lifetime immunity
- • • • fights secondary infections
- • • • improves feed conversion

This year there's something new to look for in chick starters . . . it's bīfuran. Choose a chick starter with bīfuran and you'll eliminate both cecal and intestinal coccidiosis . . . help birds develop immunity that lasts for life.

What's more . . . bīfuran goes on to fight vitality-sapping secondary infections that show up throughout a bird's life — infections that weaken chicks and stunt growth. It helps you control infections early to produce more profitable layers.

Speeds chick growth

Bīfuran offers another bonus benefit. It improves feed conversion . . . helps chicks make better use of feed. It puts your chicks on the way to becoming better pullets . . . helps them grow faster on less feed, with more vigor — gets them ready to be better layers.

Completely safe . . . non-toxic

As one of the new lifesaving nitrofurans, bīfuran is gentle on all birds. It's non-toxic . . . completely safe for all poultry. Can even be fed to layers for lifesaving results. Unlike some medications, bīfuran does not harm egg quality, shell texture, hatchability and fertility.

Positive Coccidiosis control

This year don't worry about coccidiosis. Just be sure your chick starter contains bīfuran. You'll get sure and safe coccidiosis control — plus other lifesaving bonus benefits.

Ask your feed dealer for a starter feed with bīfuran. Check the tag on the feed you buy. *Coccidiosis fighting bifuran appears on the tag as nitrofurazone .0055% and furazolidone .0008%.* Together, these two disease-fighting ingredients are known as bīfuran . . . the best coccidiosis protection you can buy in a bag of feed.

YC-7-2

bīfuran

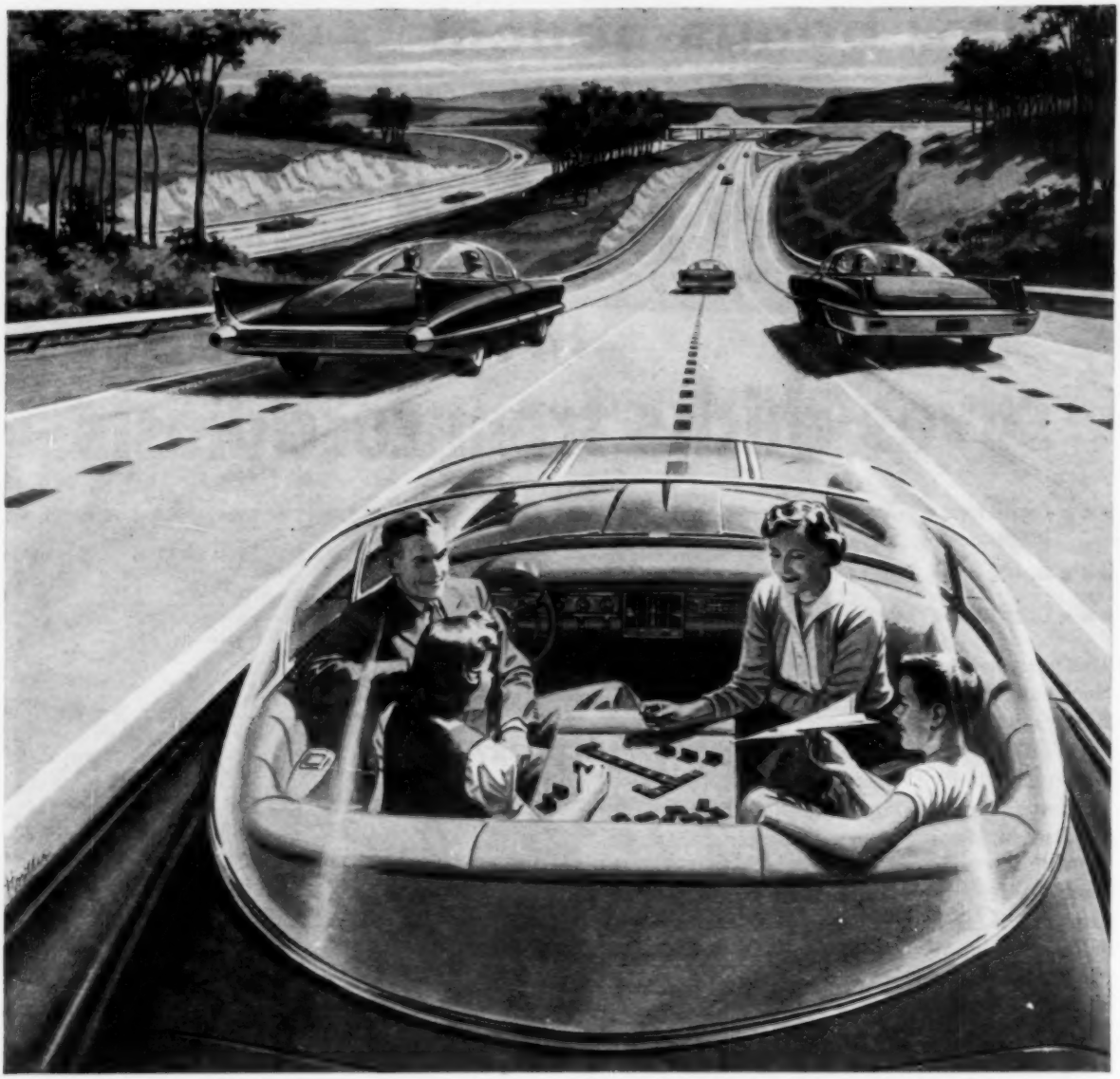
Appears on the feed tag as nitrofurazone and furazolidone.

One of these lifesaving nitrofurans

germ killers that last

HESS & CLARK, Inc.

Ashland, Ohio



ELECTRICITY MAY BE THE DRIVER. One day your car may speed along an electric super-highway, its speed and steering automatically controlled by electronic devices embedded in the road. Highways will be made safe—by electricity! No traffic jams . . . no collisions . . . no driver fatigue.

Power Companies Build for Your New Electric Living

Your air conditioner, television and other appliances are just the beginning of a new electric age.

Your food will cook in seconds instead of hours. Electricity will close your windows at the first drop of rain. Lamps will cut on and off automatically to fit the lighting needs in your home and farm buildings. Television "screens" will hang on the walls. An electric heat pump will use outside air to cool your house in summer, heat it in winter.

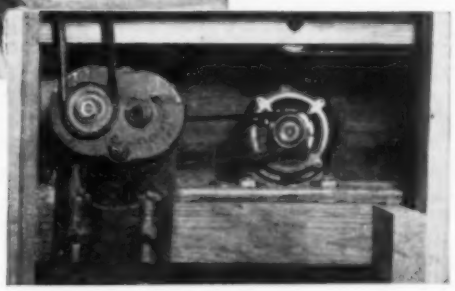
You will need and have much more electricity than you have today. Right now America's more than 400 independent electric light and power companies are planning and building to have twice as much electricity available by 1967. These companies can have this power ready when it is needed because they don't have to wait for an act of Congress—or for a cent of tax money—to build the plants.

The same experience, imagination and enterprise that helped electrify the nation in a single lifetime are at work shaping your electric future. That's why you will always benefit *most* when you are served by independent companies like the ones bringing you this message—*America's Electric Light and Power Companies**.

**Company names on request through this magazine*

At left: **Dr. Coleman shows K. J. McGilvray, Alabama Power Company, how his efficient egg gatherer works.**

Below: **The operating mechanism governing the egg gatherer. Speed reducer is at extreme left; ¼ H.P. electric motor is on the right.**



Push a button and the Eggs roll in

By Walter Baker, Jr.

WHEN Dothan, Alabama's, Dr. J. N. Coleman retired, he wanted to raise chickens and wanted to do it right. Because of his thoroughness, his two 6,000-hen capacity laying houses built a little over a year ago now serve as a model for poultrymen in southeast Alabama.

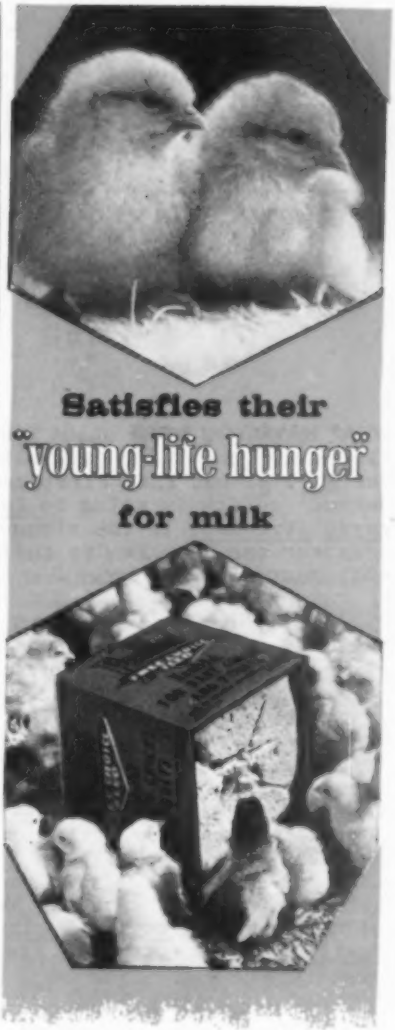
Each of the houses is 35 feet wide and 256 feet long, with a feed and egg room between. Each house is equipped with an automatic feeder, with a regular 500-pound feed hopper supplemented by another feed drum at the mid-section of each conveyor trough. It's necessary to fill the hoppers only once a day.

One large watering trough running the entire length of each house, down the middle, provides plenty of fresh water for each of the 3,000-hen capacity units at all times. Each trough has its source of water in the center of the house, with a drum placed over the water faucets. That's so the normal source of supply can be bypassed and medicine added when necessary.

A most unusual feature of the operation is the way the eggs are gathered. The nests are built with a slanted floor down the sides of each of the houses. When eggs are laid they roll down the slanted floor to a conveyor belt, controlled by a ¼-horsepower electric motor and a small speed reducer. Thus, when Dr. Coleman begins gathering eggs, all that is necessary is to "push a button" and the eggs are brought to him.

Dr. Coleman has found that a 14-hour day gives best production results. Two time switches control the night lights accordingly. Morning and evening lights seem to work better, with the periods of light occurring at the same time every day.

His extra-wide houses are arranged for maximum natural ventilation—one of the key points in the good management that keeps the hens producing.



Peebles' Handi-Paks give chicks a health boost with the Magic of Whey

• Moist, appetizing Peebles' is rich in health-giving milk sugar and other milk nutrients from whey. That's why Peebles' Handi-Pak satisfies a baby chick's *young-life hunger* for milk.

Peebles' soothes sensitive digestive systems. Acts like magic to help chicks fight off early troubles. Speeds growth. Improves feathering. This spring start *your* chicks on Peebles' and see the difference it makes. Get Peebles' in the 10-lb. size or regular 50-lb. cartons from your feed dealer. Write for free folder Dept. AC-2.

Peebles'
WHEY BLOCKS

WESTERN CONDENSING COMPANY
Appleton, Wisconsin
World's Largest Producer of Whey Products

COTTONCAST

By Gerald Dearing

WHAT HAVE YOU DONE about the soil bank? Closing date for the signup has been set for Mar. 1, but the "first come, first served" policy is going to leave the laggards stranded, if the signup for other programs can be taken to indicate what will happen to cotton.

USDA IS BETTING that payments to farmers of $217,500,000 will take 4 million acres out of production and cut the harvest by 3 million bales. Payments will average $54.15 an acre on a national basis, which is 15 cents a lb. on 361 acres. But the actual payments paid to farmers will be something else again. The avg. in Maricopa Co., Ariz., will be $147, while in some of the low production areas of Texas and Okla. the avg. will be less than $20. And that's not all. Some farmers will receive more than the county average, some less, depending on their history of production as determined by their county committee.

ONCE YOU HAVE SIGNED, you're in the bank, USDA warns. You can't withdraw.

THE DEPARTMENT OF AGRICULTURE is about to announce a new cotton export sales program patterned along the same lines as the present one which has resulted in the sale of 6.25 million bales since Aug. 1, all of which must be exported before next Aug. 15. That's a lot more cotton than the 2,300,000 bales exported in the 1955-56 season and should indicate to farmers that if your price is right you can sell cotton. The export sales for the 1957-58 season are expected to be less than this season because the foreign buyers have filled their pipelines and the only cotton bought will be that which is consumed.

MAXIMUM ACREAGE that can be put in the soil bank is 30% of the cotton allotment, or 10 acres, whichever is larger. If you have 10 acres or less this makes it possible for you to put all of your allotment in the bank.

MINIMUM PRICE SUPPORTS for 1957 are also about ready to announce. They will be based on the January parity, which may be as high as 36.50 cents. The inflationary forces that have control of the economy will force parity higher before July, when the parity of that month determines the final loan figure.

INCREASED ALLOTMENTS? Farmers are getting impatient for the day when they can get them. In spite of the export sales program and the soil bank -- barring a crop failure this year -- there seems to be no chance of getting additional acres under the present formula before 1959 or 1960. Then it would come as unrestricted acreage and 90% of supports.

SOME PRODUCERS ARE LOOKING AHEAD. They are arguing that it would be better to increase the production slightly, through additional acres, and thus avoid the loss of foreign markets -- that would come with the higher prices -- and the sharp cutback in acres that would be required after one year of unlimited plantings. They would establish, as soon as possible, an acreage which would, when averaged over the years, take care of a domestic demand of 9 million bales a year and an export demand of 5 million bales. Sen. James O. Eastland of Miss. plans to make such a proposal in the Senate.

TO MAINTAIN THE COTTON PRODUCTION INDUSTRY it is fairly obvious that a means must be devised that will make cotton both competitive and profitable. To grow cotton profitably one of the first essentials is the maximum utilization of men and machines. A tractor costs almost as much rusting in the farm lot as it does operating in the field. So many cotton farms are so small that the operator spends so much effort supporting the tractor, which is largely idle, that he earns nothing for himself. Even the high support price program can't help him.

THE TREND IS TOWARD MINIMUM ALLOTMENTS. There may come a day when everyone will get a 10-acre allotment -- then no cotton farmer can make a profit.

Final Vote Tally Shows Southern Fertilizer Experts Prefer Spencer "Mr. N"

over all other brands of Ammonium Nitrate:

The South's leading fertilizer manufacturers help you take the guesswork out of selecting an Ammonium Nitrate by telling you which brand they prefer:

In a recent independent survey, 241 leading fertilizer manufacturers in 10 Southern states were asked, "Which brand of Ammonium Nitrate do you prefer?"

When all the votes were in, the results showed that Spencer "Mr. N" Ammonium Nitrate was the outstanding favorite! Yes, the men who know fertilizer best—the South's own fertilizer manufacturers—named Spencer "Mr. N" the winner beyond a shadow of a doubt. Here's what we mean:

Among manufacturers listing a single preference, "Mr. N" got more votes than the next two highest ranking brands combined!

And the questionnaire listed *all* of the nine leading brands of Ammonium Nitrate sold in the South.

What Does This Mean To You?

The overwhelming preference for "Mr. N" means you don't have to be a fertilizer expert. By taking advantage of the experience of men who know fertilizer best, you can take the guesswork out of buying Ammonium Nitrate.

But fertilizer manufacturers aren't the only people who vote Spencer "Mr. N" their favorite brand of Ammonium Nitrate. Farmers, too, choose Spencer "Mr. N" over all others and the kind of results they get show why:

How "Mr. N" Pays Off for These Southern Farmers:

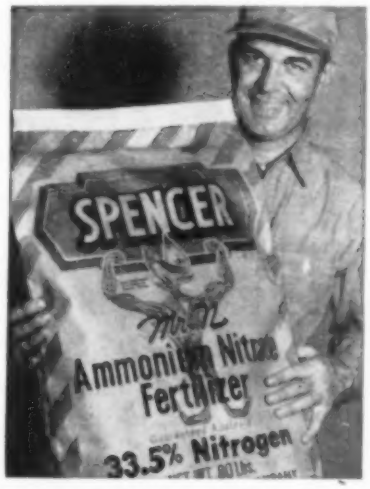
Anthony Bittel of Owensboro, Kentucky, was averaging 60 to 70 bushels of corn per acre. But with the help of Spencer "Mr. N", his yield nearly doubled, averaging 100 bushels per acre!

Buck and Bill Royster of Five Points, Alabama, tested two identical 7½ acre tracts in their cotton field. They put down $4.54 worth of nitrate of soda per acre on one, and $6.04 worth of Spencer "Mr. N" on the other. The 7½ acres of "soda cotton" yielded six bales. But the "Mr. N" cotton yielded *ten* bales!

With oats averaging 30 bushels per acre in Georgia, M. G. Hammock of Pike County got 55 to 60 bushels with the help of Spencer "Mr. N". Hammock says "Mr. N" is the best source of Nitrogen he has ever found!

Leon Phillips of Roanoke, Alabama, has an 80-acre pasture that carries a steer per acre for eight months. And his stock averages 1¾ to 2 lbs. gain per head daily! It's easy to see why Mr. Phillips is a strong believer in fertilizer for pastures—especially Spencer "Mr. N"!

Of course, these are only a few of the many outstanding result stories of Southern farmers who use "Mr. N". So this year why don't you, too, invest in the brand of Ammonium Nitrate that's preferred by Southern fertilizer experts . . . the brand that's proving its extra value on Southern farms: Spencer "Mr. N" Ammonium Nitrate Fertilizer!



Easy to apply! Spencer "Mr. N" Ammonium Nitrate Fertilizer comes in round, uniform prills that won't cake or clog your spreader. Packed in polyethylene-lined bags for 100% dryness, Spencer "Mr. N" is *guaranteed* to flow freely, even after a full year's storage under proper conditions. Spencer Chemical Company, Kansas City, Mo.; Memphis, Tenn.; Atlanta, Ga.

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FARMING AHEAD

THE LATEST FIRST—FOR THE SOUTHEAST

New "Income Parity" proposed by Nat'l. Farmers Union may have some popular appeal, but got frosty reception from USDA officials. It would establish new, much-higher parity levels so 75% of new parity would have higher dollar value than 90% of present parity. USDA is to tell its own proposal for new parity formula on Jan. 31. It will call for new method of calculating parity, but won't have much effect on dollar-and-cent support levels for crops.

Proposal by Chas. B. Shuman, Farm Bureau president, at Dec. nat'l. convention of Bureau, may get more attention. It calls for crop-by-crop elimination of USDA's authority to buy and store farm commodities as surpluses. As soon as CCC disposed of a surplus of a commodity, government would stop making non-recourse loans in favor of "business-type" loans well below market value of the product.

Deadline for Signup for '57 Acreage Reserve is Mar. 1 for cotton and tobacco, Mar. 8 for rice. Maximum acreages you can sign up for any one crop are same as last year, but if you want to sign up more, you can indicate your desire to do so at the time you sign up. Then, later, if your county has additional funds available, you may get okay to put in extra acres.

Another change this year: No minimum acreages are specified.

Maximum acreages are 20 acres or 30% of allotment for corn and rice; 10 acres or 30% of the allotment for cotton; 1 acre or 30% of the allotment for burley, dark air-cured, fire-cured and Va. sun-cured tobacco; 3 acres or 30% of the allotment for other tobacco types.

That Acreage Reserve Bonus offered by USDA will pay you 10% extra for placing exactly the same acres in Reserve in '57 and '58, not 1956 and '57, as reported earlier.

TBA Is a New Weedkiller you'll be hearing more about in the future. USDA agronomists have found it'll give excellent control over wild garlic and weed brome grasses. It's not yet ready for definite recommendations but watch for it in '57.

Five-Acre Corn Contest winner for '56 in Mississippi was Hal Anderson, Corinth, who made it with average of 215 bu. per acre!

Best Time to Topdress oats is about Feb. 15 in upper Gulf Coastal area, judging from tests by Ala. Upper Coastal Plains Exp. Sta. Oats yielded about 10 bu. more when nitrate-topdressed that early than when application was delayed to April.

Another Crop Yield "King" is E. E. Privet, of Chowan Co., N. Car. He reports a yield of slightly over 4,000 lbs. of NC-2 peanuts from a measured acre. Who else made over two tons of goobers per acre in '56?

If You're Growing Corn in the commercial corn area, don't be too quick to sign your cotton, tobacco or wheat into the Acreage Reserve. You may not know for months what the corn program provisions will be. Chances are your present original allotment for '57 is too small to make compliance profitable. If you can't stay within corn allotment you'll be barred from getting Reserve payments on the other crop -- cotton, tobacco or wheat.

You might be faced with sacrificing land from other crop for Reserve but later finding yourself ruled out of payments because you didn't comply with corn allotments!

Use of Nitrogen on cotton in the Southeast can be profitably increased fourfold, provided other management practices are improved at the same time. Dr. Robert Pearson of Ala. Exp. Sta. told the recent Cotton Production Conference in Birmingham that average use is only 26 pounds per acre, but that a cotton crop on better soils will take up about 100 lbs. of N for the first bale per acre with each succeeding bale requiring at least 30 lbs. more.

W. G. Westmoreland, Ext. specialist at N. Car. told the Conference that cultivation and hoeing is most economical for fields under 15 acres; for those over 20 acres, combination of pre-emergence chemicals with hoeing, and cultivation for clean crop at the last working may be the best choice.

A Fumigant which doesn't require plastic covers for areas where it's being applied is now reported effective for control of weeds and some soil diseases as well as nematodes in horticultural crops and tobacco.

This operator goes home to a 240-acre farm

Mrs. Dorothy Veach of Abilene, Kansas, knows the rural telephone from both ends of the line. At the end of a day at the switchboard, she goes home to a 240-acre farm, like that of many of the 200 rural customers she helps serve. She and her husband have 100 acres in wheat and the rest in alfalfa.

"I know what it's like to have grain that needs combining or stock ready to truck to market," she says. "That's why I always try to be extra helpful on rural calls."

Mrs. Veach began working for the telephone company the day after her high school graduation in 1946. She has been able to put her farm background to work almost every day.

She is typical of thousands of telephone men and women who have helped make rural telephones an important aid to farming. Their knowledge of farm needs has helped us continually extend and improve service in Bell System rural areas.

Working together to bring people together
BELL TELEPHONE SYSTEM

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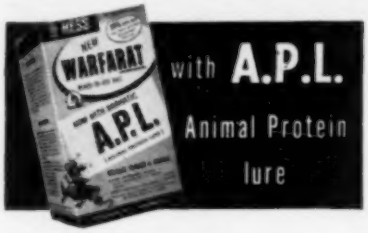
WARFARAT



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Rats like meat. That's why they go for protein-flavored Warfarat. Attracts the most bait-shy. Contains warfarin for sure kill. Comes in handy bait-box package. Low cost . . . ¼ lb. bonus.

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Load your disc harrow onto this home-built carrier

and AWAY YOU GO!

By Durell Davis

WHEN he's ready to move his disc harrow from field to field Hubert Moore doesn't have to cut up pavement, ruin road shoulders, or cut little trails that lead to erosion across the fields. Moore borrows the wheels from his combine to transport the disc harrow from one job to another.

How It's Made

A machine shop built the disc carrier for a few dollars. Two-inch steel pipe is welded to form a V which supports the disc. The end of the pipe is bent to form the spindle for the combine wheels. The whole rig is anchored to the disc by two pieces of heavy angle iron bolted to the disc frame. A metal pin holds wheels in "up" position. A "V-type" axle support gives extra strength to carry the heavy disc harrow.

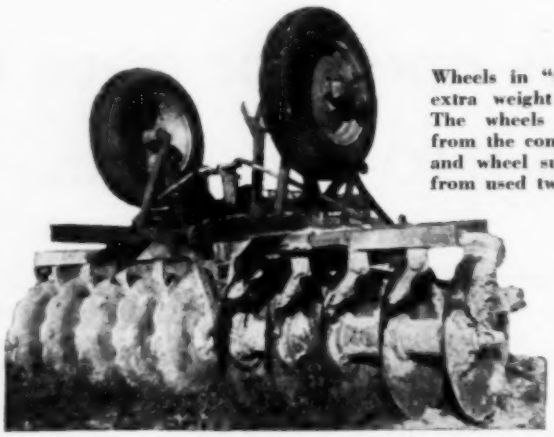
Use 'em All Year

"Borrowing the combine wheels cuts costs," says Moore. "We're usually finished with the combine when we start discing. But pieces of equipment are seasonal, and there's no use letting the combine tires rot till next harvest season."

Five Minutes to Go

Changing the wheels from the combine to the disc takes about five minutes. Front of harrow tongue is placed on the ground, wheels let down; then when the harrow is hooked to the tractor, the rubber tires keep the cutting discs about four inches off the ground. Changing the harrow back from traveling position to discing position takes one man less than a minute.

The whole rig can be built in a good home shop, or any good metal shop can build one, says Moore, an Alabamian. Photos below show how it works, with wheels in "up" and transport positions.



Wheels in "up" position add extra weight to disc harrow. The wheels are "borrowed" from the combine. The axles and wheel supports are made from used two-inch steel pipe.

In a matter of seconds, the disc harrow is ready to roll on the highway or across the fields.

Sliding bar makes hitching easy

SLIDING BAR HITCH

It slides in and out about 3 feet, making hitch easy. And Marfak lubricant cushions and eases the punishing blows on bearings in field work . . . Marfak won't wash off, drip out, dry out or cake up. Arnold Karrels (right) demonstrates hitch to Jack Wilson, Texaco Distributor of Fredonia, Wis.

ARNOLD KARRELS who farms 235 acres near Fredonia, Wis., had trouble hitching a wagon to his forage harvester so he invented a sliding bar hitch which he put together with a welder. Bar is held at maximum length by a logging chain. Now hitching is easy.

Mr. Karrels, like keen farmers from coast-to-coast, has found that *it pays to farm with Texaco products.* He gets dependable service from Texaco Distributor, Jack Wilson, of the Fredonia-Belgium Oil Co.

NEIGHBORLY MEETING: "Advanced Custom-Made Havoline Motor Oil keeps tractor engines cleaner, thus delivering full draw bar power," says R. E. Stafford (right), Texaco Consignee of Waycross, Ga. Mack Carter (left) of Blackshear, Ga., Dodge dealer, and farmers J. C. Blalock (leather jacket) and J. D. Lowman of Mershon, Ga., are interested listeners.

SPECIAL DELIVERY: Bert Viar (left), who farms 500 acres near Lenox, Tenn., uses Texaco Fire Chief gasoline because it gives superior Fire-Power for low cost operation. Texaco Consignee Jerry Hindman (right) of Dyersburg, provides timely service with the delivery of a new Firestone truck tire, held by Guy Childress (center).

IN TOWN OR ON HIGHWAYS in all 48 states, Texaco Dealers will serve you with famous Sky Chief gasoline, supercharged with Petrox, to give maximum power and reduce engine wear . . . famous Fire Chief at the *regular* gasoline price, both 100% Climate-Controlled . . . Advanced Custom-Made Havoline Motor Oil and Marfak Lubricant.

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makes fast, easy work of a tiresome job!

Lays off straight, evenly spaced rows automatically. No ropes or chains to pull ... free-swinging boom and heavy coil springs direct disc marker into proper position as tractor turns. Driver never has to leave seat. Makes sharp turns easily. Can be used with lister or cultivator attachments. 2-3-4 row operation. Available for most model tractors. Boom locked straight forward for transport.

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- ☐ SC-80 Rotary Mower
- ☐ B & W Row-Weeder
- ☐ Pasture Renovator (Double Deck Soil Builder)
- ☐ No. 7 Angledozer (Row Crop Tractors)
- ☐ Dump Type Rake
- ☐ Hudson Automatic Row Marker
- ☐ 3-Way Ditcher-Terracer Blade
- ☐ Heavy Duty 3-Way Ditcher-Terracer Blade
- ☐ Model "I-H" Whirlwind Terracer
- ☐ Model "F" (3 pt. lift) Whirlwind
- ☐ "Sur-Stan" Press Wheel

"Make Pay Dirt Pay More — Join Your Soil Conservation District"

What's Happening to Flue-cured?

(Continued from page 16)

in Washington, however, flue-cured growers can help themselves by trying to produce what the market wants. Here are a few suggestions based on company statements, college recommendations, and personal observations:

1. Have soil tested and use the results in buying and applying fertilizer. Don't use excessive amounts of nitrogen.
2. To minimize disease hazards, avoid planting tobacco after tobacco. Rotate!
3. Set around 5,500 to 6,000 plants per acre. You can do this by using 24-inch spacing in 48-inch rows, or 28-inch spacing in 42-inch rows. Don't grow tobacco in its own shade!
4. Top the plants low enough to permit all remaining leaves to mature fully.
5. Control insects and suckers until harvesting is completed.
6. Let each leaf ripen fully before harvesting it. Handle tobacco carefully during harvesting and curing.
7. Let the cured tobacco remain in packhouse long enough to improve naturally in color and quality. This will require at least three to four weeks.
8. Grade and prepare for market with utmost care. Except in Georgia and Florida where untied tobacco is sold, tie in uniform hands with heads about as large in diameter as a 50-cent piece. Keep out strings, trash, and other foreign matter. Maintain moisture in the leaf at the right level at all times.

(Editor's Note: Mr. Humphries is farm editor of The Raleigh News and Observer.)

"Of course dinner's not ready. What on earth made you come the first time I called you."

"Get him going fast with a good pig starter now!"

Keep *all* your pigs doing well . . . growing fast and uniformly . . . at less cost per pig!

Keep a good pig starter in front of them every day until they've hit 35 pounds. And be *sure* it contains the *right* amount of the *right* antibiotic: AUREOMYCIN.

This is the *profit* way to protect your pigs against enteritis and stresses. It's the *profit* way to guard against *invisible* sub-clinical diseases. It's the *profit* way to stop losses from atrophic rhinitis. It's the *profit* way to get those low-cost, early gains that lead to fine, sturdy weanlings.

Ask your feed manufacturer, or feed dealer, for a pig starter containing the *right* amount of AUREOMYCIN. Ask him, also, about GROWING feeds that contain AUREOMYCIN.

Get all these advantages from a quality pig starter containing AUREOMYCIN
(100 grams per ton)

More pigs saved.
Uniform litters, no runts.
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You'll want to continue feeding this wide-range antibiotic *all the way!* American Cyanamid Company, Farm and Home Division, 30 Rockefeller Plaza, New York 20, N. Y.

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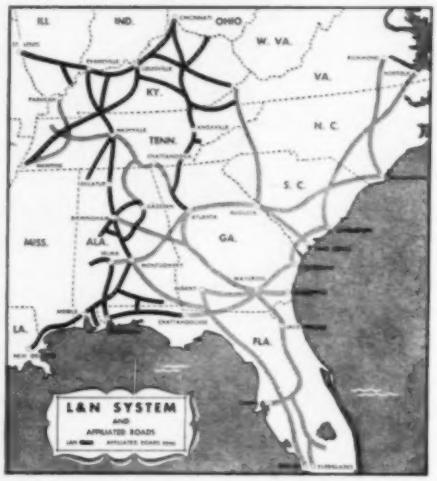
WITH OUR EYES ON THE FUTURE AND OUR HANDS ON THE THROTTLE

OF RAILROAD PROGRESS

The L. & N. Railroad — ever mindful of the importance of rail transportation to the future of the areas it serves—keeps constantly abreast of the vital physical and economic rail needs of the South. During the years since the close of World War II, the L. & N. has spent $315.6 million for plant and equipment improvements. In 1955 and 1956 alone, the L. & N.'s modernization program placed into service 82 new diesel locomotives, 13 passenger coaches and 1015 freight cars, costing a total of $24 million. Other additions and betterments in those two years cost $17.7 million.

Yesterday's long-range planning has already brought forth fruit. During the past four years alone, 627 new manufacturing plants, distribution warehouses and similar industrial operations of a permanent nature...representing a total estimated investment of over $700 million . . . were established on the lines of the L. & N.



Tomorrow's prosperity has long been in the making at the L. & N.—transportation artery of the South.

LOUISVILLE AND NASHVILLE RAILROAD

Look What Plastic Film Can Do

(Continued from page 17)

YOU'D be surprised at all the uses you can find for heavy-weight plastic film outside the house! Researchers like the University of Kentucky's ingenious horticulturist, Dr. E. M. Emmert, are developing practical methods for it for a lot of the things you wouldn't have thought about. Some of them you're most likely to be able to use (see photos on page 17) are:

- **Plastic silos and silo covers.** In use for some time as silo covering in sheets, plastic film is now proving practical in big, multi-ton-capacity bags. With a snow fence form as reinforcement, the plastic bag becomes airtight when filled and tied at the top. There's virtually no spoilage, and the silage can be kept in it for more than a year. The bag has to be protected from livestock and filled and emptied with care, however. It's subject to damage and can even be burst if filled incautiously.

- **Plastic row coverings and individual plant covers for off-season truck crops.** Dr. Emmert has kept cool-season truck crops growing under plastic coverings at the Kentucky Experiment Station through temperatures down to 10 degrees! Important use of the inexpensive coverings, however, has been for big scale cold frame production, making it practical to get sensitive truck crops started and onto the market early—when prices are higher—and ahead of summer heat. Plant covers also make it practical to produce cool-season truck crops right on through early frosts, too. Usual thickness of the film is .0015 to .002 inch.

- **Plastic mulch for truck crops.** At the Kentucky station, Dr. Emmert has found these advantages as a ground-blanketing "mulch:"

1. *Heat-absorbing ability of black plastic* helps warm up ground, get truck crops (planted through holes jabbed into plastic) started earlier.
2. *The film smothers weeds*—none can get through except at gaps in the plastic.
3. *Moisture is held*—no evaporation through the "mulch!" Gaps can be left between the strips of film if desired to let the rain that falls *during* the growing season get into the ground.

(Continued on next page)

4. *Quality of vegetables is improved!* Since they can't get in contact with the ground (or with weeds), market value of vegetables grown at the Kentucky station over the plastic "mulch" has been several times as great as unmulched vegetables. And there has been less trouble with diseases; plastic-mulched tomatoes at Kentucky, for example, have had much less infestation of rot as well as being a week earlier than unmulched tomatoes.

On another plastic-mulched plot, Dr. Emmert and associates produced 400 bushels of beans worth $5 per bushel, while another plot—the same except for being unmulched — produced only 150 bushels of unmarketable beans. They figure the original cost of the plastic at about 6/10 of a cent per square foot. Since, with proper handling, it can last three or four years, the per-year cost should be about $50 an acre.

Plastic pigmented or laminated with aluminum foil is also being tried by Emmert and his associates. Compared with a check plot which produced only 59 bushels of beans, a plot of the same size which was mulched with plastic pigmented with aluminum produced 85.4 bushels. White plastic-mulched beans produced 93 bushels; black plastic-mulched beans made 116 bushels and aluminum-laminated plastic-mulched beans topped the record with 127.2 bushels.

Other uses for plastic:

- **Irrigation uses;** such as linings and heavy-gauge dams for ditches and canals.
- **Pond liners.** Still largely experimental (one plastic-lined pond held fine at first, later shrank as water escaped through holes apparently made during installation) but does show definite promise.
- **Low-cost greenhouses.** Film is simply stretched over frame, retains heat much better than glass. It must be replaced about every year, however.

"That one's for false alarms."

Let your crop choose the fertilizer you use

It's easy to determine the amounts of the various plant foods a particular crop requires to make vigorous growth and produce big yields. Ask your County Agent or Experiment Station. It's easy to find out whether your field is high or low in each of these plant foods. Your soil tests will tell you. The most profitable fertilizer for you is a V-C Fertilizer ***precision-made*** to provide the difference between what your soil contains and what your crop needs. That's the fertilizer that pays you the biggest return per dollar invested. That's the fertilizer your crop would choose for you to use!

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It pays to plan ahead and place your order early. Give your V-C Dealer time to get your V-C Fertilizers to you on time. Tell him you want the right grade ***precision-made*** for each crop and soil. You'll get rich, mellow blends of better plant foods scientifically balanced to fit your needs. Your crops will thank you with extra yields and extra profits!

The best grade PRECISION-MADE for YOUR crop

V-C Fertilizers are ***precision-made*** in the analyses recommended by your Experiment Station or Extension Service.

V-C Fertilizers are ***precision-made*** in combinations of plant foods to meet needs indicated by soil tests.

V-C Fertilizers are ***precision-made*** to include major plant foods *plus* secondary plant foods and minor elements.

Famous for crop-producing power and easy-drilling quality since 1895!

By Bob Nichols

New ways to...

Make Double-Cropping Double-Easy

How to make the most of a two-crops-a-year system

DOUBLE-CROPPING, with a short-season summer crop like soybeans following small grain, is an old idea that's getting a new look. Mississippi and South Carolina agronomists have improved on some methods of planting and handling the summer crop. They're ideas that should ease some of the problems of making cropland do double duty.

One idea that's now getting a lot of interest is mulch planting the summer crop, with a minimum of disturbance of the small grain stubble. There's a good reason for developing a good system of planting directly into the stubble: The success of the summer crop depends largely on getting it in fast after the small grain is taken off, and making the most of the moisture present then.

Ideas you can try for second-crop planting:

- **Stubble-mulch planting with double-disc openers**
- **Narrow-row planting for quick row shading**
- **Extra fertilizer with the mulch-planted crop**

Turning under the stubble after the grain is combined delays planting and lets moisture escape. The easy alternative—burning the stubble—speeds up exhaustion of the organic matter most Southeastern soils need to keep the soil structure in better condition.

In Mississippi, some improved methods of stubble planting are proving useful for getting soybeans planted following small grain without working the soil and without having to burn the stubble. A modified double-disc opener unit (FARM AND RANCH, April, 1956) on a front-mounted or rear-mounted planter (see photo on opposite page) has become standard equipment for a lot of Mississippi Delta farmers planting soybeans after small grain. On heavy clay soils like those of the Delta, it does an excellent job of getting the bean seed down into the often-scarce moisture at planting depth, even through a heavy residue of straw.

Maximum Use of Moisture

With only a very narrow planting furrow made by the discs, and a minimum of soil disturbed in planting, moisture is held in the soil. Thus it's possible to plant the beans almost immediately behind the combine, without working the stubble, and with the beans able to get started on whatever moisture is already in the soil.

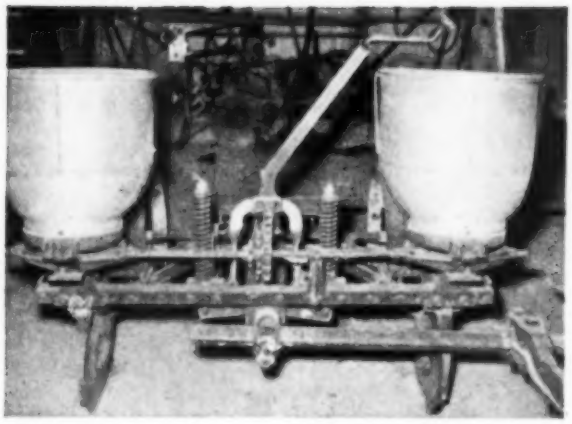
If there's a rank growth of the small grain, cutting the straw close and shredding it with the combine—or with a mechanical shredder following the combine—may be necessary before the planter can get through the residue, of course.

Obvious disadvantage of planting this way is the difficulty of cultivating the beans in the small grain residue. One solution is use of discs instead of sweeps and shovels on the cultivator. Another would be chemical control of the weeds, but it's expensive and difficult, since soybeans are highly sensitive to weed-killers.

One idea the Delta Branch Station in Mississippi is trying is to plant the beans in 20-inch rows instead of 40. With fast-branching beans like Lee, the plants have a chance to completely spread over the middles in about five weeks, and shade out the weeds which do get through the stubble residue. Then the beans aren't cultivated at all. The method won't always work, however.

Carolina Style

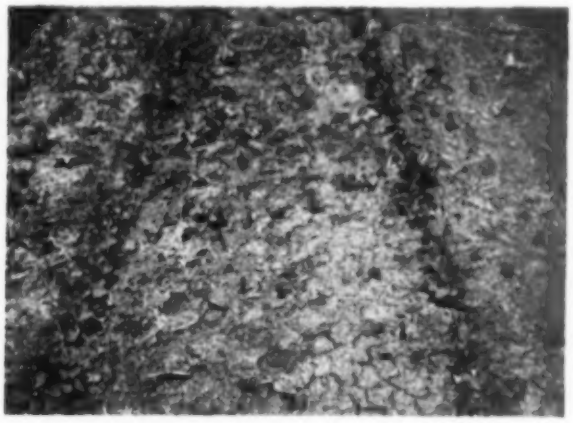
In lighter soils, like those of the South Carolina Coastal Plain, a different method of double-disc planting in stubble residue is catching on. In these sandier soils, double-disc openers of a different kind can go into the unprepared stubble, bed and plant in the bottoms between the beds. Advantages are about the same as with the Mississippi level-planting double-disc *(Continued on page 79)*



Weight of this rear-mounted planter at Mississippi's Delta Branch Station gives the special double-disc openers enough penetration even in dry, unprepared grain stubble ground.

Ready to harvest, these beans planted in stubble mulch are still relatively free of weeds although they were never hoed. Summer drouth here at Delta Station reduced yields, however.

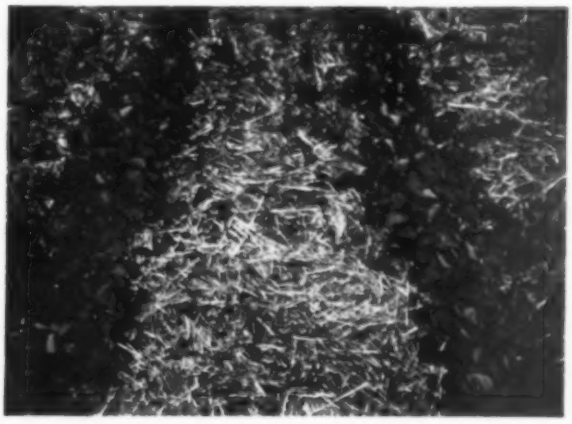
Broadcast soybeans at the Delta Branch Station. Beans were disced into unburned stubble, leaving some mulch on top, and never cultivated. Weed growth here was negligible.



These beans were planted with the double-disc opener in unprepared stubble ground after it had been burned off. Weed problem was no greater than with mulch-planted beans.

Photos: Nichols

Soybeans planted in 20-inch rows on small grain stubble at the Delta Station, to test ability of beans in narrow rows to shade over the rows early and minimize weed damage.



Without any cultivation, these beans planted in 40-inch rows on unprepared stubble ground did have greater weed infestation than broadcast beans, and had about the same yields.

LOOK! ...more ...more

LOOK again! IT'S THE

HAULS LIKE A TRUCK! No need to hold back on load. Pile it on —the Ranchero packs a greater payload than many standard pickups! Power aplenty, too—modern Short Stroke 144-hp Six or either of two Short Stroke V-8's, up to 212 hp. Fordomatic or Overdrive available at extra cost.

HANDLES LIKE A CAR! Ball-joint front suspension and outboard-mounted rear springs—first time on any pickup—give true passenger-car ride. Cab interior is exactly like that of the '57 Ford Ranch Wagon. Power steering, power brakes, power seat and power windows available at extra cost!

NEW FORD RANCHERO

Looking at the boldly modern styling of the new Ford Ranchero, you may find it hard to believe that it's actually a man-sized truck, built to do a man-sized job. But it won't take you long to find there's a lot of heft behind the Ranchero's glamour.

It carries more than half a ton. That's more capacity than many standard pickup trucks offer. The body floor is over six feet from front to back. Loading height is only 26 inches . . . lower than *any pickup*. No matter how you look at it, the new Ford Ranchero is a real workhorse.

And it's even more! The Ranchero is great for those mixed work-and-pleasure trips to town—wonderful as a "car" when work is done. It gives you luxury and handling ease that can only be compared with that of fine cars.

The new Ford Ranchero is surprising in many ways, not the least of which is its low price. Never before has so much style and luxury been packed into so rugged a vehicle at such a low price.

The Ranchero is at your Ford Dealer's now. Come in and see this new idea in pickups!

First of a great new line of

FORD TRUCKS *for* '57

Photo: Ron Logan

This Texas cotton is being irrigated with two suction tubes in each row. Larger tube is removed after furrow is filled; smaller tube keeps up slow flow for saturation watering along length of row.

IRRIGATION MADE TO ORDER

Photo: Bob Taylor

Sprinkler-irrigating peanuts. Soil is too porous and field not level enough to surface-irrigate. But sprinkler irrigation can be all-mechanized.

By Bob Nichols

IT STILL takes a lot of work to irrigate, and a lot of skill and know-how to make it pay off. But with the new kinds of equipment now on the market added to the know-how we've acquired during the past three years of weather extremes, irrigation can now be almost an all-mechanized operation. And now that Southern farmers are getting used to the idea of irrigation farming, *mechanized* irrigation farming may be worth considering.

Mechanized irrigation can be expensive, of course. But figure out what it's worth when dry weather does hit, not to have to run yourself ragged trying to water too many acres with inadequate equipment and with too little time to do it. You may figure it's worth it to buy some of the extra equipment it'll take to get the water where it's needed when it's needed.

An investment in more than one kind of equipment might pay for itself, too, by making it possible to get efficient, semi-mechanized irrigation on more acres than you could handle otherwise. Few farms are naturally ideal for irrigation, or ideal for use of "minimum equipment" for irrigation. There are usually enough differences in soil texture, lay of the land, slope and moisture requirements of the different crops so that a single kind of equipment isn't enough to irrigate as many acres as

you'd like to; extra equipment could make the difference.

The new plastic or canvas gated pipe, for instance, does a good job on a field that's uniformly sloping, with few irregularities—if it's not too sandy or too heavy. But you wouldn't do too well using the same equipment on rolling, sharply sloping or sandy soil, of course. So it could be a good investment to have equipment for pipe-and-furrow irrigation for one field and sprinkler irrigation for another—using the same pump and water supply for both.

There are several kinds of mobile sprinkling equipment (some of them shown below) now on the market which take most of the strain out of sprinkling. General types include:

1. *Side Roll systems*, pulled across field by tractor or truck, or self-propelled, (photo below).
2. *Line Tow* or *Line Pull systems*, pulled by hitching tractor to end of system, and trailing entire system, pipe and wheels, behind tractor to next stop. One system has axle mounted off center, so wheels swing to 45° angle as it's towed down field, making system realign itself to right or left of its original position as well as farther down field.
3. *Skid Pan or Skid Pull systems*, like photos below, cost less, work where there are few obstructions.

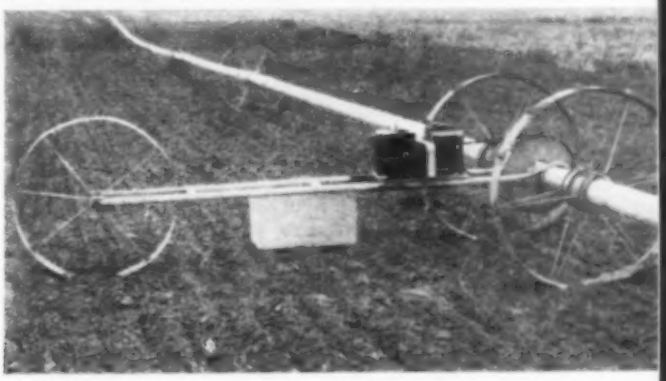
Self-propelled systems generally cost about $12 a foot for pipe, sprinklers, etc., compared with a little less than $2.00 a foot for non-mobile systems—a lot of difference in cost, but worthwhile if the difference in labor cost can repay the investment. They won't work on deeply bedded land or in tall crops, of course. But some of the self-propelled systems work surprisingly well on rolling land.

Tow or skid systems generally cost about twice as much as ordinary systems with the same sprinklers and size of pipe.

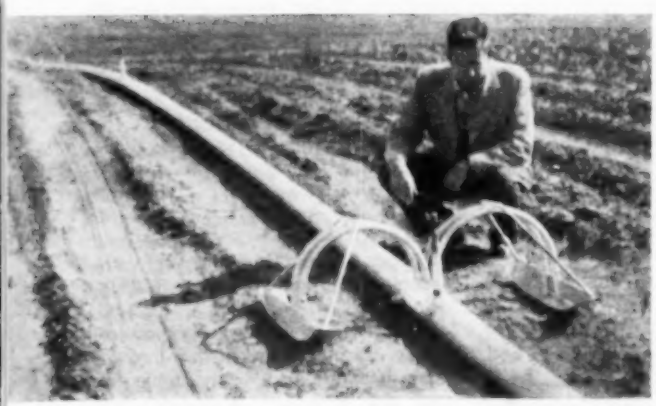
In high-value crops, like tobacco and truck crops, permanent main lines—underground—can be a good investment, to supply sprinkler or gated pipe laterals and even ditch and furrow irrigation. Some irrigation farmers even bury aluminum pipe as the permanent main line, although it's not generally recommended. And it can sometimes be a good investment to install the laterals permanently, too.

Permanent mains can be used equally well with mobile lateral systems (like the ones shown below) or with ordinary portable pipe moved from one location to the next by manpower.

...to deliver more water when and where needed



SELF-PROPELLED SIDE ROLL SYSTEM. With a small gasoline engine like this mounted about every 660 feet, this system can be calibrated to move itself across the field as it sprinkles. Expensive, but saves labor costs.



SKID PAN SYSTEM. Also low-cost and usable where obstructions are few, it's also moved by pulling entire string of pipe lengthwise down field. Skid pans minimize wear on pipe; less wear than with system at right.

SKID PULL SYSTEM. One of lowest priced of power-moved systems, it works where there are few obstructions. Tractor or truck is hitched to coupling at end for pulling entire string of pipe lengthwise down the field.

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TRUCK FARMING

If You Ask Us...

How do you go about rotting pine straw to be used in the place of fertilizer?

S. D. Gremling *Atmore, Ala.*

Pine needles are a good source of humus, but don't actually take the place of fertilizer, of course.

They decompose very slowly by themselves, unless mixed into the soil or mixed with barnyard manure. You can rot them in a compost pile, by piling them in a spot where you can keep them wet and mix some dirt (or, better yet, barnyard manure) in with them. Turn over and mix the compost pile occasionally with a spade.

An easier way would be to go ahead and mix the pine needles thoroughly into the soil where you want them to be used, then add the commercial fertilizer or barnyard manure you need to supply minerals. It will take about a year for the needles to rot enough to be of much benefit to the soil.

Of course, if you add barnyard manure to the soil, you will either want to use partly-rotted manure, or be careful to avoid having any plant roots come in contact with the manure during the first year.

Please tell me how the new Vancide 51 gets rid of black rot in sweet potatoes. Where can I buy it?

Hugo Reynolds *New Orleans, La.*

When black-rot infected potatoes are discovered, begin treating with one percent borax solution. This can be done as they are washed and graded for market. You can add to your grader an inexpensive tank with spray nozzles for applying the material to potatoes as they are washed and as they roll on to the grading belt.

After the diseased lot is graded, spray the machinery (particularly the brushes and rollers with a 2 percent solution of Vancide 51 (½ pint of Vancide 51 to 3 gallons water). You can apply it with a small plant sprayer. Vancide 51 will reduce spread of black rot as much as 98 percent when used to treat grading and washing equipment. Combined with the use of borax, it almost completely eliminates losses due to black rot and possibly other diseases such as soft rot.

You can buy Vancide 51 from R. T. Vanderbilt Co., Bethel, Connecticut, if your dealer does not have it.

Increase your vegetable yields

Vegetable yields can be increased tremendously by a combination of commercial fertilizer and use of green manure crops, according to tests at agricultural experiment station at Bixby, Okla.

Crop	Yield in Tons Per Acre High Fertility	Low Fertility	Increase
Snap Beans	3.84	2.29	68%
Tomatoes	3.91	2.27	72%
Sweet Corn	3.91	3.16	24%
Cabbage	4.09	2.59	58%

The chart above shows the yields compared with the low fertility plots. The low fertility plots received no fertilizer, no green manure crops and had two vegetable crops per year (spring and fall). The high fertility plots got 500 pounds of 5-10-5 per acre plus nitrogen and phosphorus side dressing and were grown in rotation with cowpeas and vetch in summer and fall, and vegetables in the spring.

Question!

• • • I would like to know if you have any information on sprays or powder form type to kill house pests. I have a certain kind of roach that common roach sprays won't kill. This type of roach is a more of a black kind. It doesn't get large like the brown type. It multiplies extremely fast. Sometimes at night when I turn on the kitchen light, the floor is just covered with small black bugs. The kitchen is the only place that I have them. . . . I just can't find anything that will kill them. I was informed that they call it the German roach.

Mrs. G. H. Albrecht *Goliad, Texas*

In most locations, chlordane is effective against the German roach. Suggest that you obtain a formulation of chlordane to treat your kitchen. This spray should be thoroughly applied to the baseboards, inside cabinets and in drawers, etc., to obtain the best control. Care should be observed, in order not to contaminate food or food products. In some locations, this species of roach has become resistant to chlordane. In this case, sodium fluoride dust should be used. Unless you have been applying chlordane for a number of years, the roaches are probably not resistant to chlordane.

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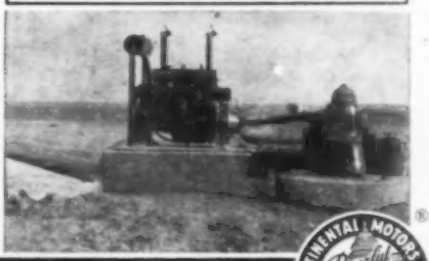

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This METHOD is NOT spinning, trolling, casting, fly fishing, trot line fishing, set line fishing, hand line fishing, live bait fishing, jugging, netting, trapping, or seining. No live bait or prepared bait is used. You can carry all of the equipment you need in one hand.

The whole method can be learned in twenty minutes—twenty minutes of fascinating reading. All the extra equipment you need, you can buy locally at a cost of less than a dollar. Yet with it, you can come in after an hour or two of the greatest excitement of your life, with a stringer full. Not one or two miserable 12 or 14 inch over-sized keepers—but five or six real beauties with real poundage behind them. The kind that don't need a word of explanation of the professional skill of the man who caught them. Absolutely legal, too—in every state.

This amazing method was developed by a little group of professional fishermen. Though they were public guides, they rarely divulged their method to their patrons. They used it only when fishing for their own tables. It is possible that no man on your waters has ever **seen it, ever heard of it,** or ever **used it.** And when you have given it the first trial, you will be as closed-mouthed as a man who has suddenly discovered a gold mine. Because with this method you can fish within a hundred feet of the best fishermen in the county and pull in ferocious big ones while they come home empty handed. No special skill is required. The method is just as deadly in the hands of a novice as in the hands of an old timer. My method will be disclosed only to those men in each area who will give me their word of honor not to give the method to anyone else.

Send me your name. Let me tell you how you can try out this deadly method of bringing in big bass from your local waters. Let me tell you why I let you try out my unusual method for the whole fishing season without risking a penny of your money. Send your name for details of my money-back trial offer. There is no charge for this information, now or at any other time. Just your name is all I need. But I guarantee that the information I send you will make you a complete skeptic—until you decide to try my method! And then, your own catches will fill you with disbelief. Send your name, today. This will be fun.

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CROPS AND SOILS

How acre-pound controls work

By Larry May

WITH substantial support now from burley growers as well as flue-cured tobacco growers, the drastic acreage-poundage production control plan for both types of tobacco has a strong chance of getting approval—for the 1958 or 1959 crops.

The idea behind the plan is that it is expected to aid in reducing present surpluses of both types of tobacco, and prevent accumulations of new ones in the future. Thus, with flue-cured production being adjusted by the new support levels to the types and grades that will sell better, it's hoped that the acreage-poundage plan will eliminate future acreage cuts for both types.

Allotment by Pounds

Under the plan, each grower would be allotted a certain number of pounds of tobacco to produce. As a grower, your allotment would be based approximately on the number of pounds you now produce from your allotted acreage—depending on your own past production history and that of the county and state.

These poundage allotments would be the same as those established under the soil bank plan for tobacco growers. They would be based on the best three-year yields out of the past six years, with county and state averages also used.

Self-Adjusting by Years

The plan is called self-adjusting because, over a period of several years, each grower should average growing and selling his poundage allotment. However, in some years, you might grow and sell more than your base poundage allotment. When this happens, you must reduce both your acreage and poundage allotments the next year. If you under-produce your poundage allotments, you can increase the acreage you plant the following year.

To illustrate the program, suppose you had a base acreage of two acres

(Continued on next page)

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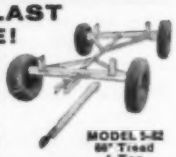

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assigned to you. The base could be changed only to affect all growers, and never changed for an individual alone.

You'd get a yield-per-acre allotment according to the formula. Suppose it's 1,500 pounds per acre. Then you'd get an annual poundage allotment of 3,000 pounds.

Suppose you grew 3,300 pounds of burley the first year. You *could* sell it all. But the following year your annual acreage allotment would be cut by .2 of an acre to compensate for the overproduction. However, your base acreage wouldn't be affected. If you *didn't* sell the 300 pounds you overproduced, then you could grow all the two acres the next year.

If you did sell it, then you could plant 1.8 acre the second year. Your base acreage allotment still wouldn't change. However, your poundage allotment would be cut an amount corresponding to the overproduction. You could, therefore, produce 2,700 pounds the second year.

If you did, you'd be even and could grow your full two acres the third year. However, it'd be more likely to take three or four years to get back in line after you once overproduced and oversold.

If you wished, you could also lay out for a year and then grow the poundage and acreage allotments for both years at the same time.

Pro and Con

The advantages that have been suggested for the method are:

1. Makes possible a sound price support program.

2. Provides for more effective and enforceable controls.

3. Protects the relative position of cooperating growers.

4. Allows for the balancing of good tobacco crops against poor crops.

5. Allows for flexibility in management on the farm.

6. Improves administration in that it provides a check on the farm and at the market.

7. Retains elements of acreage control as presently understood.

The disadvantages of the plan are:

1. Increases administrative problems and costs.

2. Reduce the export market in some years when lower grades of tobacco might not move to market.

3. Complicates, to a certain extent, the landlord-tenant relationship.

4. Require warehousemen to exercise more care in handling marketing cards.

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He collects on yellow hop

DICK LINDLEY, of Mayes County, Oklahoma, gets a nice cash return from yellow hop clover overseeded in Bermuda grass while the Bermuda is being established. He has harvested one crop of 1,296 pounds of cleaned seed that sold for a dollar a pound.

He sprigged a 20-acre field of Bermuda in the spring of 1954 and overseeded it with yellow hop clover in September, at the rate of two pounds per acre, drilled with a grass seeder

Lindley (right) shows county agent Howard Nelson some of clover after it has come through the combine.

on a combination grain and fertilizer drill. He applied 500 pounds of rock phosphate per acre at the time the yellow hop was seeded.

He mowed the 1955 crop in mid-June, using a windrow attachment on the mower. He harvested it with a pick-up attachment on the combine, in early July. The 1956 crop was harvested a little later.—*Lee Stevens*

He aims high with soybeans

WHEN you combine 598 bushels of soybeans from 14 non-irrigated acres—or 42 bushels per acre—that's good. It's about twice the average. Here's how Frank Reed of Crawford County, Arkansas did it.

He chose land on which spinach had previously been grown. Spinach had been fertilized with 5-10-5 at the rate of 200 pounds per acre, and with

150 pounds of nitrogen fertilizer plowed under. Since soil tests showed that no further fertilizer was needed for soybeans none was used.

The soybean land was broken and disced three times before planting. Certified Lee soybean seed was planted May 15 in 40-inch rows at the rate of 40 pounds per acre. Beans were cultivated three times and hoed once. The Lee variety was ready to harvest about 10 days later than the Ogden beans, which incidentally, made about 30 bushels per acre on land receiving 400 pounds of 5-10-5 fertilizer per acre.

Other fields of soybeans in the same area suffered from drouth during part of the growing season. However, Reed's Lee soybeans maintained a healthy state of growth. Reed claims that part of his success in growing soybeans is attributed to deep breaking and fertilizing the previous crop on the land whether it be sweet corn or spinach. —*H. L. Gantz*

Chain saw cuts silage

DURING the past several years we've seen increased use of the long-grass method of putting up grass silage, especially on smaller farms. The idea is simple enough—the grass is mowed, then picked up and hauled to a trench silo, or stack, without being chopped. In most cases a buck rake is used, with a few farmers using hay loaders or wagons.

Despite all the advantages of low machinery investment, and ease of putting up silage this way, farmers sang a different tune when the time came to remove long grass silage from their trench silos. Almost everyone has tried to invent different kinds of chopping equipment to hack the silage off in slices so it could be easily forked.

Saw the Solution

H. M. Bredehoeft, Talala, Okla., has come up with a happy solution to this dreary chore. He uses his light-weight gasoline-powered chain saw to make fast work of cutting enough silage for the day's feeding. He found out that no special changes were needed to cut silage with his chain saw, and he figures he saves at least 30 minutes per day with this labor saving tool. —*By Herb Karner*

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LIVESTOCK

How to select replacement ewes

REPLACEMENT ewes from California and Northwestern flocks have proved generally superior to either native or Southwestern ewes in four-year-tests just reported by the Tennessee Experiment Station. One group of native ewes last year upset the averages, however, and out-produced all other types of ewes in value of the lamb and wool crop.

The high-producing native ewes were four-year-olds at the Middle Tennessee Exp. Sta. They averaged $25.49 per ewe income from lambs and wool—about $5 per ewe higher than either California or Northwestern ewes.

At Tennessee's Plateau Exp. Sta., however, the native ewes haven't done as well. Their per-ewe income from lambs and wool averaged less than half as much as Northwestern or California ewes.

Tennessee specialists warn that the important thing to look for in selecting replacement ewes is type and quality, not origin. But these records do show the value of selecting replacement ewes with known twinning ability, as well as managing the flock for high lambing percentage.

He makes late calves pay

SUMMER calves dropped in June, July and August often create a marketing problem. But some producers in a cow and calf program are solving the problem by using a combination grass and limited feeding program.

Perry King of Franklin county, Ark., lets his summer calves run with the cows during the winter on oat pasture with grain available in creeps. This reduces grain feed requirements during the winter, but calves do learn how to eat.

When the summer calves reach about 400 pounds, or when cows are near calving time, they are weaned and put on lush grass. They are also given a limited grain ration while grazing on pasture. The ration consists of ground corn and oats in the ratio of 1 to 2 plus a small amount of cottonseed meal. Calves are marketed by June at weights averaging 585 pounds, getting to market before extremely hot weather.—*H. L. Gantz*

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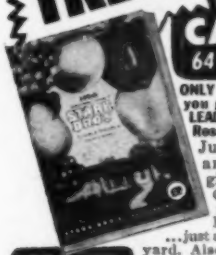

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LIQUID OR TABLETS

Watch out for Shrinkage

TO AN unwary cattle producer, selling feeder or stocker cattle on the basis of estimated shrinkage can be an easy way to get skinned—if you're not a good shrinkage estimator.

Sometimes, taking the highest price per pound offered may actually bring you less profit from the animal. It all depends on how many pounds are counted. A lower pound price on the cattle as they stand can pay off better than a higher price per pound if the buyer is allowed to subtract too many pounds for shrinkage.

Many buyers employ a "pencil shrink." That is, they know that the average shrink is from 3 to 4 percent if the animal goes without food or water from 8 to 12 hours. The animal thus loses the belly fill. So, the buyer contracts to buy the animal, automatically deducting, say, 4 percent of the weight at your place. But if the animal is trucked to market and allowed to have feed and water overnight, the shrink will very likely be only about 2 percent, not 4 percent.

So the rancher who's offered 20 cents a pound, with *no* shrink, comes out better in the long run than he would if offered 20 to 50 cents per pound with a 4 percent shrink. The producer should keep shrink records or know what his cattle shrink, and allow for it by asking for a higher price to offset the shrinkage loss.

Charles B. Brotherton, Agricultural Marketing Service specialist at Denver, Colorado, warns livestock producers to watch out for early morning weighing of their cattle. For example, say a calf weighs 408 pounds the night before. In the morning, after losing the belly fill, the calf weighs in at 400 pounds, a 2 percent loss overnight. In a few hours his weight will be back to 408 but if he's weighed early the 400 pounds count. If you had already sold on the basis of a 4 percent pencil shrink, it's easy to see the buyer gets the benefit of a double shrink and you get some unprofitable experience.

Of course, cattle transported off the farm or ranch for weighing will shrink and the buyer can't be expected to absorb all the loss. The usual shrink is about 2 percent per hour for the first two hours. So, adjust your price to get the full value of the animal you sell. In other words, be sure you get paid for the actual pounds you sell and not several dollars a head less due to excessive shrinkage allowances in favor of the buyer. —*Tom Milligan*

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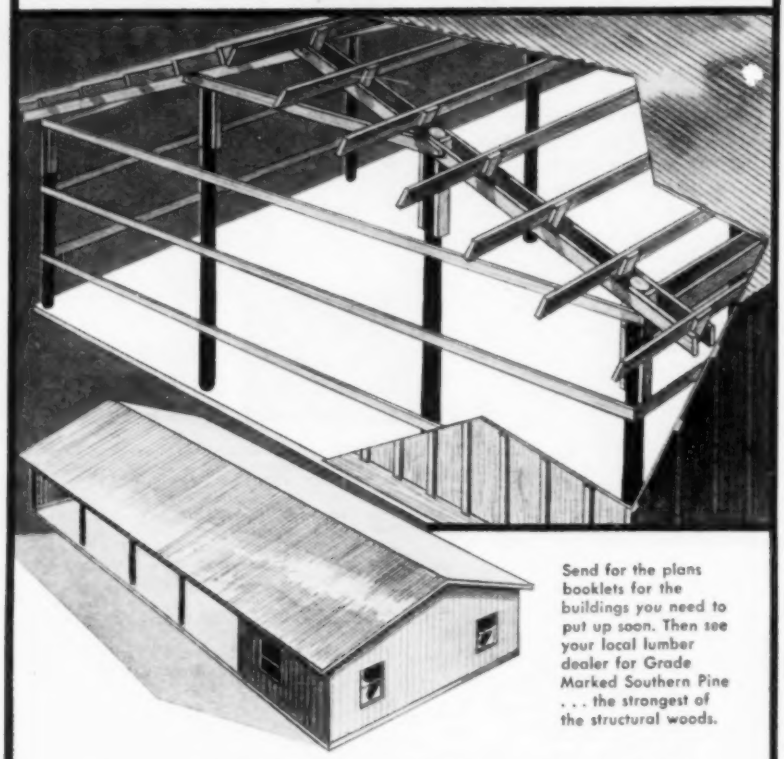

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Alabama farmer "dries" his profits

EMMETT GASTON, Mobile County, Ala., has all of the proof that he needs that his grain and seed drying installation has been a wise investment. For several years prior to the summer of 1955 Mr. Gaston had been growing corn, oats, soybeans and other types of grain on his 500 acre farm in south Mobile County. The corn was grown principally to be fed to the 150-200 hogs usually "topped" out on the farm and he had every intention of saving at least part of the grain grown each year to be used as seed stock for the following year. The grain had to be field dried and cured, however, and much of Mr. Gaston's success depended on the elements.

Never Mind the Weather

Last year, however, he stopped taking chances on the weather. Two 1,000-bushel steel bins were purchased; a one-horsepower electrically-operated blower was installed to push air through the grain in the bins. With the artificially cured corn he was able to feed his hogs all year on the grain that he produced on his own farm. At no time did he find any evidence of mold or spoilage.

Seed stock also cured out well. Mr. Gaston's neighbors, who were without the artificial drying system, were forced to sell their corn early because of weevils. By being able to hold his corn a few months longer Mr. Gaston was able to save at least 50¢ a hundred weight. That, in itself, almost paid for the cost of the installation.

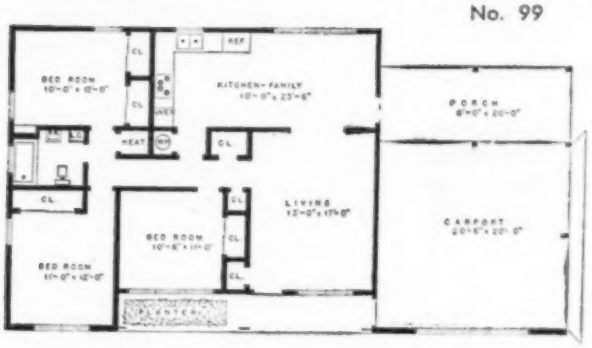
—*Walter L. Baker, Jr.*

Emmett Gaston inspects the artificial drying system, which was so profitable last year for drying his grain and seed.

By PRICE HOBGOOD

DOUBLE-DUTY CARPORT

HOUSE PLAN
No. 99



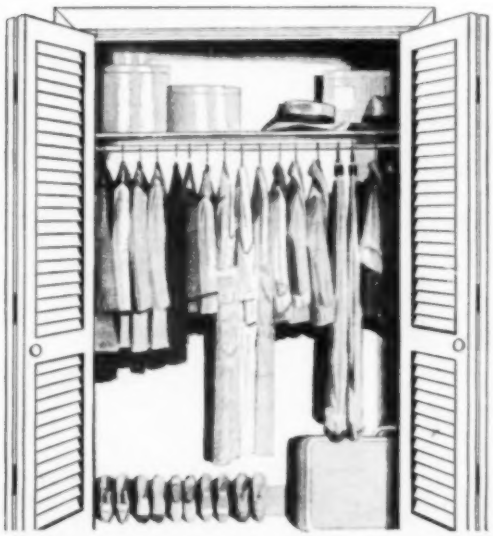
THE family buggy will fit comfortably into this spacious carport—and so will the family when you turn this area into an outdoor-living room. The family will also enjoy the convenient floor plan of Plan No. 99.

Note the handy arrangement of bedrooms and bath, the double sliding doors so the kitchen-family room can be opened to combine with the living room and make a large social area; the comfortable-size rooms and adequate closets.

Working blueprints and specifications for this plan are available for just $2.00. Send your order to Building Editor, Farm and Ranch, Nashville, Tenn. Be sure to state plan number and your name and address.

For a complete selection of house plans send $1 for the FARM AND RANCH Book of Southern Country Homes. This colorful building guide contains sketches of 56 popular plans and many other helpful building and decorating features.

DIMENSIONS:
Heated area: 1,176 sq. ft.
Porch: 268 sq. ft.
Carport: 410 sq. ft.
Length: 59'—6".
Width: 32'—0".



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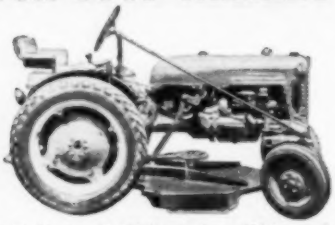
"A NECESSARY FOR GOOD FARMING"



B. D. Harter of Oklahoma City, Oklahoma, has a Wood's 42-inch cut Rotary Mower-Shredder mounted on a Farmall Cub. And he says, "Have had no trouble with it—it's a necessary for good farming." That's because Wood's PTO-operated Rotaries shred stalks, brush, residues, prunings . . . cut small trees . . . mow grass, clip pasture . . . and mulch leaves. They do it faster, at lower cost, and with less maintenance than by other methods.

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GET RID OF RATS AND MICE FOREVER!

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Don't gamble with the 27 dread diseases known to be carried by rats and mice. End property loss, food contamination and risk of fires caused by these vicious rodents. Follow simple directions and d-CON is safe to use around children and pets yet so effective it rids your property of rats and mice forever! Get d-CON today! Stop rat disease and destruction NOW!

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Rats are smart. As soon as one or two are caught in traps or killed by poison, the rest of the rat colony becomes bait-shy. Because d-CON is odorless, tasteless, and causes no pain, rats and mice never realize that d-CON with LX3-2-1 is causing their death.

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CLEAR BRUSH, FELL TREES WHILE YOU RIDE. CUTS BOTH HORIZONTAL and VERTICAL

Operator controls Saw from Tractor Seat. Cuts Brush at 2 M.P.H.... Trims Hedge... Fells and Bucks up to 24-in. Trees. Tractor Power makes Sawing Faster and Easier. Send Postcard Today for FREE FOLDER and Prices.
Belsaw Implement Co. 4077S FIELD BLDG., KANSAS CITY 11, MO.

LAW ON THE FARM

Who pays when shipment is lost?

PINTO beans were sold by a dealer in Mountainair, New Mexico, to a wholesale grocer of Brownwood, Texas. It was agreed the beans were to be shipped by a trucker operating a fleet of motor trucks. Drafts for $6.30 a sack less 60 cents for freight, were drawn by the seller on the buyer as the beans were loaded on trucks.

When two of these drafts, aggregating $2,478 for 420 sacks of beans which had been delivered to the trucks, were not paid, the seller sued to recover that amount. In his defense the buyer said that since he had not received these 420 sacks of pinto beans he did not owe the money.

The seller insisted that when the sacks were loaded onto the trucks it was a delivery of the beans to the buyer as far as he was concerned and loss was for buyer to bear.

In granting the seller a judgment for this amount, the Texas court said that he had delivered the beans when he delivered them to the trucks and was entitled to payment.

"It is an established rule of law that when property is delivered to a carrier by the seller, as directed by the buyer, or where the contract is silent as to the place of delivery, delivery to the carrier operates as a delivery to the buyer and passes title to him. And if the property at the time of such delivery is in the condition as to quality which the buyer is entitled to receive, this will constitute a performance of the agreement of sale and any loss of the property thereafter will fall, not upon the seller, but upon the buyer."*

*Walker-Smith Co. vs. Jackson, 123 S.W. 2d 993 Texas.

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Make Salt Blocks Stay Put

HERE'S how to keep hogs from rooting the salt block around in the dirt or mud. First cut two 24-inch pieces off a 4 x 4. Saw and chisel a plug out of the center of each and fit pieces together to form a cross. Place a block of salt in the center of the cross and with a pencil outline its position. Then just inside the lines on each arm of the cross, bore a hole just a little smaller than a half-inch pipe 10 to 12 inches long. Drive these in the holes. Now the salt block, with a little forcing, should fit tightly in the rack. The salt rack may be fastened down by driving a stake in the ground at the end of each arm, then secure with a nail. The rack can easily be moved to another location when sod around it has worn away. Monroe Bedsole of Coffee County, Ala., built this one. —*Roudell Byrd*

Cull herds to stop cancer

The seriousness of cancer in cattle was emphasized by J. H. Knox, animal husbandry department, New Mexico A&M in a recent report.

He said, "If 5 percent of animals over 4 years old develop cancer each year, about 25 percent of your breeding herd will eventually have this trouble. Cancer has been found to be heritable and should be treated as a breeding problem. "Its occurrence in daughters of different sires in our herd," said Knox, "has varied from 0 to over 40 percent." He emphasized the importance of recognizing the nature of this trouble and eliminating it from herds rather than treating afflicted animals.

STOP PAIN INSTANTLY
COMBAT INFECTION
PROMOTE HEALING
WITH ANTISEPTIC
Campho-Phenique
(PRONOUNCED CAM-FO-FIN-EEK)
USE IT FOR
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Quick! Apply Campho-Phenique at once to minor burns from hot cooking utensils, hot water or steam . . . stops pain *instantly*, promotes rapid healing. The same thing happens when you use it on minor cuts, scratches and abrasions. Campho-Phenique is highly antiseptic. Wonderful for fever blisters, cold sores, gum boils; to relieve itching and to guard against infecting insect bites. Used on pimples, Campho-Phenique helps prevent their spread and re-infection.

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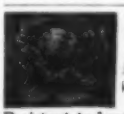
DEPT. 7FR2 DAVENPORT, IOWA



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OPEN UP YOUR NOSE

Breathe Again!

When a cold stuffs up your head and it's hard to breathe, just put a few drops of Vicks Va-tro-nol up each nostril as directed. Instantly, you feel a refreshing tingle. The swelling goes down, the irritation is soothed, your nose opens. You breathe again! Wonderful relief, too, for sneezes and dry, itching nose.

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NOW—for children...
a new, different aqueous nose drop that *clings* to give longer relief. Milder-*feeling*. Fully effective.
New MILD VICKS VA-TRO-NOL Nose Drops

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Lowest price. Tuberous type, double blossoms, mixed colors. Easily grown in pots or beds. **Top size bulbs. Order today, postpaid.** Or C.O.D. for $1.00 or more plus charges. 12 FOR $1.00
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Plant. Keeps flies out of house. It is said flies will not stay where it is grown. Mysterious. **Blooms 60 days from planting.** Flowers Summer and Winter. A beautiful house plant. **We also include**

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Flowers in **8 weeks** from planting seed. **Bloom Every Ten Weeks** from Spring to Fall. In 3 years will be literally covered with Roses perfectly hardy and can be planted in the open ground. Frost will not hurt them.

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Save Garden Space. Vines climb readily. Grow on fences, poles, etc., saving valuable space in small gardens. **One hill keeps a good sized family supplied all summer.** Bear early. Continue to produce fruit all season. One plant bears 40 to 50 fruits.

Delicious Peaches
Ripe fruit in 80 days. Resemble oranges in color, shape, size. Grow on vines like melons. **Beautiful and Tempting** appearance when canned. Make delicious **preserves and sweet pickles.** Fine for pies. Easy to grow. **All 5 pkgs. of seed for 10¢ & 4c postage.** Catalog rare seeds **Free.**
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WAVED and RUFFLED MIXED
4" to 5" blooms in gorgeous solid and variegated colors, deeply fringed, beautifully veined. Send only 10c for (150 seed) regular 50c packet and Big Seed, Plant & Nursery Catalog. CATALOG **FREE**
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HUNDREDS OF DOLLARS PAID... each month by advertisers for boys & girls pictures (6 mo. to 18 yrs.) for TV, Calendar & Magazine ads. Your child has same opportunity. Send ONE (1) small photo for approval. Print child's and mothers name and address on back. Returned in 20 days with report. NO OBLIGATION.
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$60.00 ..Make It Easy with New **TALL-Occasion GREETING CARDS**
It's so easy, you'll keep on earning extra money in spare time all year with Cardinal's charming cards and novelties. Friends buy on sight from over 150 new fast-selling assortments for every event. Big Gift line. **Profits to 60c per box plus Cash Bonus.** No experience needed. Get sample outfit on approval. Stationery samples **free.** New $1.25 "MIXER" Salt & Pepper Set *free* for promptness.
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Please send free booklet.
Name_____
Address_____
City_____ State_____

Country Doctor

How To Avoid Toothaches

AMERICANS are saving themselves a lot of toothaches.

Thirty million Americans are now drinking water to which fluoride has been added. Fluoride is a substance that will reduce decay of teeth when added in very small amounts (one part in a million) to drinking water.

As with any new program, there have been some people who resisted the addition of fluoride to water, although many Americans have unknowingly been drinking water that naturally contains this protective element. However these misguided (I believe) persons have in many cities had to surrender to the weight of scientific studies which show that dental cavities in children can be reduced by at least two-thirds by drinking fluoridated water.

Unfortunately only six percent of towns and cities under ten thousand population have fluoridation; it ought to be 96 percent. In cities where fluoride is being used, cost has been about 10 cents per citizen per year.

If you live in a town with public water supply and without fluoride you could do a significant community service by starting a campaign for fluoridation. Further information can be obtained by writing your state Public Health Department.

The Common Cold

The common cold season is on us again. Although colds can come any month of the year they are most frequent in late winter.

I wish I could report dramatic discoveries about the prevention and treatment of the common cold. I can't. Bed-rest, plenty of water and juices, aspirin are still the accepted treatments. Non-oil nose drops, cough preparations and antihistamines may make a person more comfortable but bring no cure. Penicillin is of value only in preventing or treating complications.

There is hope that a good cold vaccine will be produced soon, but at present the remedies grandmother used are about as good as what we have now.

—*Robert M. Metcalfe, M.D.*

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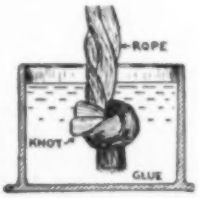
You-can-do-it

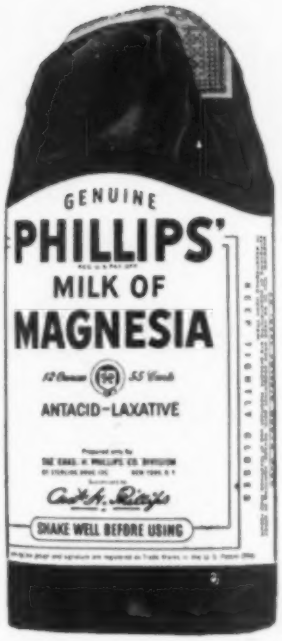
Build a Barbecue Pit

If the do-it-yourself bug has bitten you, or if the family wants a barbecue pit and you want to save the purchase price, here's a neat one you can build. You probably have all the parts around the place—all you need to do is put it together. The one shown below, built by Wallace Burgess of Fayette, Alabama, was made from one-half of a 35-gallon oil drum, a piece of welded wire, four bolts and four 28-inch lengths of half-inch pipe. A couple of ordinary car battery plates, with six or eight holes bored in each, are placed in the bottom of the drum to support the fire. —*Boyd Christenberry*

Handy Hint

If you've been having trouble when you tried to knot the end of a new rope to prevent its fraying, here's a neat trick. New ropes are slippery and stiff, but if you first dip the knot in glue (sketch below), you will almost have to cut it out. Black japan, thin liquid shellac or other moisture- and heat-resistant paints or mixtures will serve the same purpose.





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Grows 12" to 15" flowers on strong, sturdy stems. Separately labelled. Culture included. **Send only 25c for 2, 50c for 4, $1 for 8** and Seed & Nursery Catalog.
R. H. SHUMWAY Seedsman, Dept. 411, Rockford, Illinois

By IRIS DAVENPORT

Work magic with a mirror

MORE than a "looking glass" is a mirror. That is, if you use it in the right way. Mirrors are a definite part of the furnishings in many homes today. Every room in any house can be made more attractive by the right mirror used in the right way. Try it and you will see and be pleased . . . a mirror placed so that it reflects a lovely view through a doorway, a length of colorful drapery or an interesting wall adds color and life and decorative interest to any room.

You can make a small room look larger, a narrow one seem wider, a dark one look lighter. You can banish dark, gloomy corners and drab sections. Yes, with the right use of a mirror you can fool the eye and get an effect that is better. You know how this is done—the reflected view draws our attention away from the actual space and makes it seem different and in a dark room or area the mirror reflects any light that is there and makes the place seem lighter and cheerier.

Framed mirrors can be used, but often an unframed mirror that seems a part of the wall is better. Note the simple use of the mirror in the living room shown above. The room not only looks larger and brighter but lovelier and more elegant.

You don't have to have lots of money or do a remodeling job. You can give your rooms a face-lifting by using mirrors to work magic for you.

The Southern Country Home

Cherry Pie

Yumm Yumm!

Cherry pie is a favorite of just about everybody. Add a big scoop of vanilla ice cream, making it pie a la mode, then it's the choice of everyone you serve.

Turn a look and give a try to using dark, sweet canned cherries. Less sugar will be needed than for the red sour cherries, and you can add lemon juice for zip.

By IRIS DAVENPORT, Editor

MAYBE the story of Washington cutting down his father's favorite cherry tree isn't true. Whether true or not, thoughts of cherries, as well as of George and his hatchet, come to mind at this season. For decades February and cherries have gone together, as the song says, like "love and marriage." But cherry pie is an American "love" anytime. You have a handy helper, as you know, in a can of cherries, whether they are the red sour ones or the dark sweet cherries.

Best Ever Cherry Pie

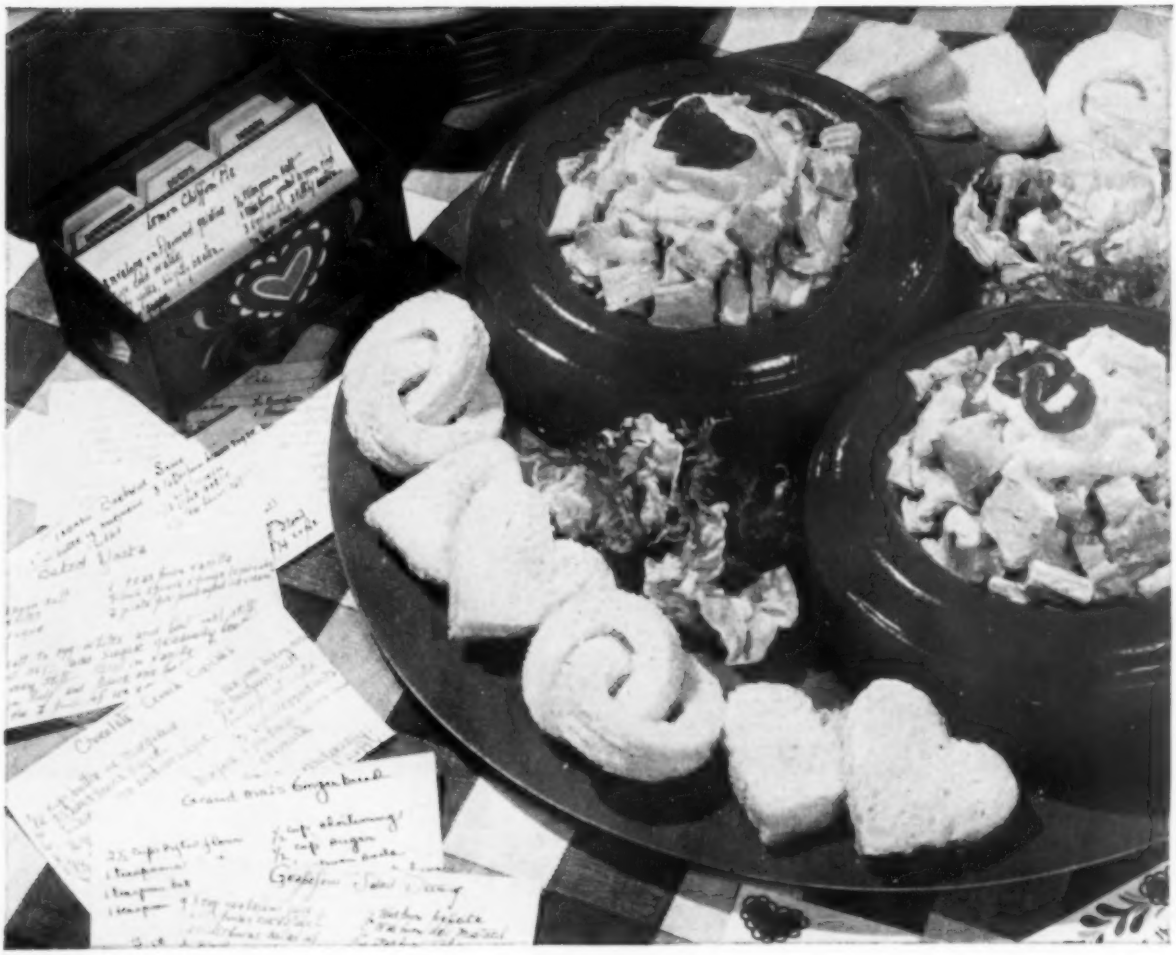
3 tablespoons quick-cooking tapioca
1 cup sugar
⅛ teaspoon salt
4 cups (2 No. 2 cans) drained sour pitted cherries
¼ teaspoon almond flavoring
Pastry for 9-inch pie
1 tablespoon butter or margarine
(If cherries are canned in a syrup use only ¾ cup sugar)

Mix tapioca, sugar, salt, cherries and juice and flavoring. Line pie pan with pastry rolled to ⅛ inch *(Continued on page 71)*

Sparkling new label...

same heavenly **Snowdrift**

New as freshly fallen snow . . . *Snowdrift's handsome new can,* heaped full with the self-same, snowy-light *premium* shortening. When you see Snowdrift greeting you with its bright new face, remember—handsome is as handsome does. And Snowdrift has already produced the handsomest of results for millions of good cooks. For all-vegetable Snowdrift is the Wesson Oil shortening.



Rx *for a Recipe Shower*

YOU agree, do you not, that in most cases doubles are delightful? You will like this double feature—suggestion for a shower and some of our favorite recipes, that we hope will be yours, too.

A recipe shower is a clever, inexpensive way to honor a bride-to-be or to welcome a newcomer to your community. Send the invitations on postcards, gaily decorated with hearts and with fruits and vegetables that you have painted, drawn and colored, or cut out and pasted on. Ask those invited to bring their family's favorite recipe written on a 3 x 5 card and signed. You provide a card file recipe box—decorated like the invitations. Ask the guests, as they arrive, to put the recipes in the box—a bread recipe in the section marked breads, salad recipe in salad section, and so on.

Decorate the living room and dining room with arrangements of fruits and vegetables and with your favorite food pages from FARM AND RANCH pinned on the curtains, and scotch-taped to the mantel and walls. The party may be a late morning one with lunch served. If so, here is a menu you can prepare ahead to serve to your guests and your family. The spiced tea is better if it stands several hours, too—and is heated as served. Coffee, too, if made of instant coffee, is better if it is allowed to simmer for a while.

You'll want to try the suggested menu for this shower; turn to page 71.

Good Onion Soup is so Easy to Make ⇨

YOU know the saying "fifty million Frenchmen can't be wrong," nor will you when you make and serve good ole onion soup. So few homemakers make this super soup. I wonder why, especially as onion is a favorite flavor of most people. Do you think it's because onion soup is served usually only in noted restaurants and hotels having good chefs, and home cooks think they dare not try? If that's your thought put it aside and plan to serve the family steaming onion soup tonight. You'll find it so easy to make and the family will enjoy it so much you may have to say: "Don't smack your lips so!"

Onion Soup

- ¼ cup butter or margarine
- 4 large onions (or 4 cups) thinly sliced onions
- 2 cans consomme or bouillon*
- 2 cans water—use soup can as measure
- ¼ teaspoon pepper
- ½ teaspoon monosodium glutamate (MSG)
- ½ teaspoon salt—more if desired
- 4 drops Tabasco—if desired
- 1 drop lemon juice
- 6 cheese croutons
- 6 tablespoons grated cheese

*Chicken or beef stock is excellent to use; if so water listed will not be needed

Melt butter or margarine in saucepan over low heat, add onions and cook until golden but not brown, stir often with a fork to separate slices into rings. Add consomme, pepper, MSG and salt, bring to a boil, add Tabasco and lemon juice. Keep hot, when ready to serve pour soup into oven proof casserole or into individual baking dishes. Put a cheese crouton for each serving on top, place in oven under broiler until cheese bubbles and browns a bit.

Cheese Croutons

Cut thin slices of French bread, hard rolls, stale biscuits, or cut crust from bread slices and cut into 3 inch circles. Toast lightly on both sides. Sprinkle each crouton with 1 tablespoon of grated cheese—Parmeson or sharp cheese preferred.

Cues for Cooks

Iris Davenport

If you want a deliciously, different cake add 1½ teaspoons ground nutmeg to a package of white, yellow or devils food cake-mix. Follow directions on package for mixing and baking.

When making crust for apple, mince, pumpkin or custard pies try adding 1 teaspoon nutmeg to the recipe for the crust, or to the contents of a package of pie crust mix. You'll do it again and again.

CHAFE-GUARD your baby . . . with the powder that protects baby skin *even when wet!* It contains a special ingredient that neutralizes the irritants in diaper moisture.

SAFE-GUARD your baby . . . with the *purest* baby oil there is. It's specially blended with soothing lanolin to guard against irritation, cleanse delicate skin thoroughly yet gently.

Give him the one first day relief proved by 41 million mothers

Mother, how satisfying it is to know you can give your child safe, sure relief from suffering in the most important hour of his cold! The hour you first discover he feels a cold coming on.

Everything you do for him then, at that critical hour is especially important. That's the hour to use dependable Vicks VapoRub®. Rub it on his chest, throat and back and see that he rests. By relieving his suffering at the very beginning you can help him throw off the cold.

Eases Your Mind As Well As His Suffering

Anxiety and worry will leave when you see how your child relaxes as VapoRub brings its warming comfort. It works so fast, two ways at once:

- Works on the chest to loosen muscular tightness.
- Works in the nose, throat and large bronchial tubes with medicated vapors that relieve congestion, ease coughing, make breathing easier.

Another treatment with VapoRub at bedtime will add to his comfort, bring relief hour after hour, while he sleeps peacefully. Often, by morning, the worst suffering of his cold is over.

Nothing works like VapoRub to bring comforting first-day relief from suffering.

Works wonderfully in steam, too. For croupy coughs or heavy chest colds.

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If you send this Coupon NOW you can get 100 GLADIOLUS Bulbs, imported from Holland, for only a penny a bulb! These bulbs from the flower center of the world will produce a rainbow of blooms in stunning reds, blues, yellows, pinks, purples, whites, crimson, violet and multicolor. These bulbs are small, blooming varieties already 1" to 1½" in circumference. Any bulb not flowering five years will be replaced! Act now to get these wonderful bulbs in time for spring planting. Limited Time Offer. Send today only $1.00 plus 35c for postage and handling. Orders sent C.O.D. plus postage if desired.

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Playtime

IT'S PLAYTIME! . . . and guess what you voted as "best" in our column? *Crossword puzzles!* Second place goes to *poems* and third to *games* and *word puzzles*. Those are the things I'll keep on featuring on your fun page, so send me those things you have made up all by yourself. The best ones will appear in PLAYTIME. Now . . . how about a game about that exciting time—Valentine Day?

Move TWICE around this heart-shaped design, clockwise, skipping every other letter, to find the secret message. It's up to you to figure out where to start. Write your answer in the blanks below.

____ ____ ____ ____ ____ ____ ____ ____

DON'T BE BASHFUL!

It's easy to make introductions. When introducing your friends, say, "Jane, this is Bill Davis. Bill, Jane Adams." Then they will say to each other, "Hello, Jane," and "Hello, Bill."

At school you may say to your teacher, "Miss Moore, I would like to have you meet my mother (or father, brother, etc.)." Introduce everyone to your pastor, thus, "Dr. Hill, may I present my mother?" When you are introduced to someone else, say, "How do you do?" or "Hello." Upon departing you might add, "It was nice meeting you." There! . . . isn't that easy?

A VALENTINE GAME

Having a Valentine Party? Make two large hearts out of red heavy pasteboard. Cut each one into about twelve parts (like a jigsaw puzzle). Choose teams and give each side a jumbled-up heart. See which team can put its heart together first. The loosers are called "Heart-breakers."

WASHINGTON'S BIRTHDAY

ACROSS:
1. Our first president
2. Dined
3. He cut down _____ cherry tree
4. Boy's name

DOWN:
1. Unit of electric power
2. The _____ of our country
3. We plant these

(Last Month's Answers: Across: 1. Jan; 2. Icicle; 3. Snowball; 4. Mittins. Down: 1. Nickels; 2. End; 3. Anna; 4. Snowman; 5. Lakes.)

PLAYTIME SCRAPBOOK

Dear Lauragene: I'm making a scrapbook out of PLAYTIME. On one page I have at the top "Things To Make" and under that I paste things to make. On another page I have "Crossword Puzzles" and then "Games" and so on. I not only use PLAYTIME but similar material from other magazines and newspapers. This scrapbook comes in handy for parties and rainy day fun.

—Sarah Farrar
Marietta, Miss.

WANDALEE'S POEM

See my red boots? Here they go
Making footprints in the snow!
Inside: ten toes, nice and warm,
Never mind the winter storm.
—Wandalee Kremling (Age 10)
Shiner, Texas

LINCOLN'S BIRTHDAY

Abraham Lincoln had many nicknames, but one is more famous than the others. Rearrange the mixed-up letters on the log cabin to spell this nickname.

(Answer to heart puzzle: I love you, my Valentine.)

Send PLAYTIME letters to 833 Exposition, Dallas, Texas.

Your editor, Lauragene Parker

More Mothers depend on Fletcher's Castoria than any other laxative

to correct constipation in children of all ages

WHEN A LAXATIVE IS NEEDED to correct listlessness, tantrums, loss of appetite due to temporary constipation . . .

DO AS MOST MOTHERS DO for prompt, pleasant, *natural-like* relief without the griping and diarrhea harsh adult laxatives may bring . . .

GIVE GENTLE FLETCHER'S CASTORIA—the only nationally-recognized laxative specially made for children's special needs.

Chas. H. Fletcher—The Original and Genuine

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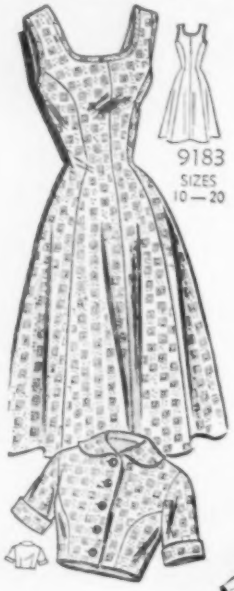
EXCELSIOR INSTITUTE, Dept.C2650, Excelsior Spgs., Mo.

4740. This Printed Pattern assures easy, accurate sewing, a perfect fit for half-size figures! It's a slimming step-in style, with novel semi-yoke to detail the bodice. Half sizes 14½-24½. Size 16½ takes 4⅜ yards 39-inch fabric.

9045. This Printed Pattern is designed especially for the half-sizer—to give you a wonderful new ease of sewing, a perfect fit! Half sizes 14½-24½. Size 16½ takes 5½ yards 35-inch fabric.

9183. Loveliest princess lines fashion the sundress—little fitted jacket continues the same flattering silhouette! Misses' sizes 10-20. Size 16 dress, 4⅛ yards of 35-inch; bolero 1¾ yards.

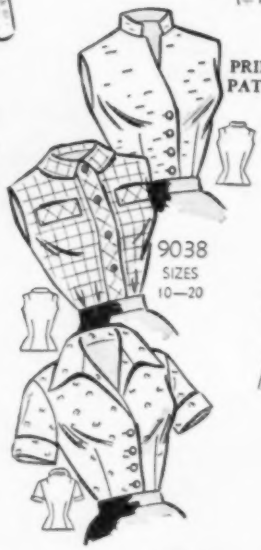


9183
SIZES
10—20

PRINTED PATTERN
9045
SIZES
14½—24½

PRINTED PATTERN
4740
SIZES
14½—24½

PRINTED PATTERN



9038
SIZES
10—20

PRINTED PATTERN

PRINTED PATTERN
4650
SIZES
12—20; 40

PRINTED PATTERN

9091
SIZES
12—20

4650. Our new Printed Pattern—in your favorite classic style! This shirtwaist fashion is wonderful any season of the year! Misses' sizes 12-20, 40. Size 16 takes 4½ yards 35-inch fabric.

9038. Mix-match these pretty blouses with all your skirts—make a wardrobe of fashions from this one Printed Pattern! Misses' sizes 10-20. Size 16 upper version, 1⅝ yards 35-inch fabric; middle version, 1⅞ yards; lower, 2 yards.

9091. Our new Printed Pattern is the perfect style for that cool cotton! Bodice is cut low and curved; cover-up bolero! Misses' sizes 12-20. Size 16 ensemble, 4¾ yards 35-inch; 1⅞ yards contrast.

Send thirty-five cents (in coins) for each pattern to: Farm and Ranch, Pattern Department, P. O. Box 112, Old Chelsea Station, New York 11, New York.

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"Apple Blossoms"—this lovely quilt brings a breath of spring to any style bedroom . . . beautifully proving that quilts are charming complements to all types of furnishings.

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Cherry Pie

(Continued from page 63)

thick, fill with cherry mixture. Dot with butter. Roll pastry for top crust, cut slits so that steam can escape. If lattice top is desired, cut pastry into strips. Moisten edge of pastry in pie pan. Put on top crust or lattice strips and press edges together with fork or fingers. Bake in hot oven (425° F) for 55 minutes.

Recipe Shower

(Continued from page 65)

TOMATO ASPIC RINGS—FILLED WITH CHICKEN SALAD
HEART AND DOUBLE-RING BREAD AND BUTTER SANDWICHES
LEMON CHIFFON PIE
COFFEE

If the party is an afternoon one, serve: Heart and Double-ring Sandwiches filled with chicken salad, spiced tea and toasted nuts, chocolate crunch cookies and coffee.

If the shower is an evening one, serve luscious lemon chiffon pie and coffee, or Grandma's gingerbread a la mode and coffee.

Here are some of our favorite recipes—for party and family fare. The aspic salad and cookie recipes are in party size to serve 20. You may wish to cut the salad recipe for family serving, but the aspic and cookies will keep longer than the family will let them last.

Tomato Aspic

5 envelopes unflavored gelatine
2½ cups cold tomato juice
6¾ cups hot tomato juice
5 tablespoons lemon juice
1 tablespoon Tabasco
1 tablespoon salt

Soften gelatine in cold tomato juice. Dissolve thoroughly in hot tomato juice; add lemon juice, Tabasco and salt. Pour into 2 greased 5-cup ring molds. Chill until firm. Fill center of rings with chicken or tuna salad. Garnish with mayonnaise and top with hearts and rings cut out of pimiento.

Chicken Salad

2 4-pound hens
Celery tops
1 large onion, sliced
1 tablespoon salt
1 bay leaf
6 whole cloves
¼ inch dried red pepper pod

Clean chicken, leave whole. Put in stew pot and half cover with boiling water. Add seasonings. Cover and simmer 1½ hours or until chicken is tender. Cool. Remove skin, fat and gristle. Cut meat into ½ inch cubes. The two hens should make 6 cups of cubed chicken.

(Continued on page 72)

Yield: 2—8-inch round layers

2 cups sifted cake flour
3 teaspoons Clabber Girl Baking Powder
1¾ cups sugar
¾ teaspoon salt
½ cup shortening
½ cup milk
½ teaspoon imitation maple flavoring
2 eggs
¼ cup milk
½ cup finely chopped walnut meats

Sift together flour, Baking Powder, sugar, and salt into a large mixing bowl. Add shortening, ½ cup milk, and flavoring. Beat 2 minutes using medium speed of electric mixer, or by hand using 150 strokes per minute. Keep batter scraped from sides and bottom of bowl with rubber spatula. Add eggs and ¼ cup milk. Beat 2 minutes longer as before. Fold in nut meats. Pour equal amounts of batter into 2 greased and floured 8 x 1½-inch round layer cake pans. Bake in a 375° F. (moderate) oven about 25 minutes. Cool. Frost with desired frosting.

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Recipe Shower

(Continued from page 71)

To make chicken salad you will need:

- 6 cups cubed chicken
- 3 cups diced celery
- ⅓ cup lemon juice
- 1 teaspoon salt
- ⅛ teaspoon pepper
- 1 teaspoon Monosodium Glutamate (MSG)
- 1½ cups mayonnaise

Combine chicken and celery in mixing bowl. Blend lemon juice and seasonings with mayonnaise, add to chicken and toss lightly. Chill several hours.

Lemon Chiffon Pie

- 1 envelope unflavored gelatine
- ⅓ cup sugar
- ¼ teaspoon salt
- 4 egg yolks
- ½ cup lemon juice
- ¼ cup water
- 2 teaspoons grated lemon rind
- 4 egg whites
- 1/16 teaspoon salt
- ⅓ cup sugar
- 1 9-inch baked pie shell

Mix first 3 ingredients together in top double boiler. Add slightly beaten yolks, lemon juice and water. Mix well. Cook over boiling water for about 6 minutes until gelatine dissolves and mixture thickens, stir often. Remove from heat, add lemon rind then cool. Beat egg whites until stiff but not dry, gradually add sugar and salt and heat until very stiff. Fold gelatine mixture into beaten whites. Turn into a pie shell and chill. If you wish you may garnish with whipped cream.

Chocolate Crunch Cookies

- ½ cup butter or margarine
- 6 tablespoons sugar
- 6 tablespoons brown sugar
- 1 egg
- 1⅛ cups sifted flour
- ½ teaspoon baking soda
- ½ teaspoon salt
- ¼ teaspoon hot water
- ½ cup nuts
- 1 package (1 cup semi-sweet chocolate morsels
- ½ teaspoon vanilla

Cream butter, add sugar gradually, blend until light and fluffy, add egg, beat thoroughly. Sift flour, soda and salt together. Add to mixture, mix well. Add hot water and stir until well blended. Add nuts, chocolate morsels and vanilla. Stir until mixed. Drop by teaspoonfuls on cookie sheet. Bake in slightly more than moderate oven (375° F.) for 10 minutes. Makes 50 cookies.

Grandma's Gingerbread

- 2½ cups sifted flour
- 1 teaspoon salt
- 1 teaspoon baking powder
- 1 teaspoon ginger
- 2 teaspoons cinnamon
- ½ teaspoon cloves
- ½ cup shortening
- ½ cup sugar
- ¾ teaspoon salt
- 1 cup molasses
- 2 eggs
- 1 cup hot water

Sift flour, salt, baking powder and spices together. Cream shortening, sugar and soda. Add molasses, add ½ cup flour mixture, and stir. Add eggs and beat well. Add hot water alternately with the remaining flour mixture. Beat ½ minute. Pour batter into well-greased, lightly floured 9x9x2-inch pan. Bake in moderate oven (350° F) for 45 minutes.

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Easy Does It

WHO lives the longest? They say that people who know that they have heart trouble live the longest because they learn to take care of themselves. Isn't it foolish to wait until a heart condition sets in before taking an inventory of our actions? It is best to learn to be lazy in the first place.

By being lazy we do not mean being indolent and just plain good-for-nothing. We mean learning to relax, for isn't the lazy individual the picture of relaxation? Is it necessary to rush and jostle your way through life?

It is the American way to tear into everything, to hurry and strain, and with what results? If we could only remember and work calmly, to take it easy in doing the regular routine of the day. Try this and you will find the day's duties take on a more pleasant aspect. You will not need to stop so often to catch your breath, or to gain strength enough for the next job. To your surprise you will find that you accomplish just as much in the end. And with more pleasant results. Slowing down does not mean quitting. It means relaxing and going at everything with a calm attitude.

Physical laziness is only one of the ways to attain that completely relaxed state. Have you ever stopped eating and suddenly realized that you were going at it as if it were your last meal and you were racing with time? Take it easy! The food won't run away, and it certainly tastes better when each morsel is savored.

Even our emotions need to be lazied a lot. The tense person is always quick to anger. An angry explosion is always an effort and it jumps the blood pressure way up. The whole system must work harder just to be angry. If we could only school ourselves to let go and relax, to practically drift into a state of lassitude, there would be little anger in the world. The body would refuse to make the effort. The same applies to emotional upsets. The person who is too lazy to be sad or gloomy is always the one who is happiest. One cannot forestall grief or unhappiness, but when it comes it is just an extra pressure on the system to keep straining against it. What cannot be helped should be accepted, and it is better to submit than fight against it.

Why not learn to do things the easy way, and reap the benefits as you go along? It takes four times as much efforts to frown as it does to smile. So let's take it easy. —*Ruth Kent*

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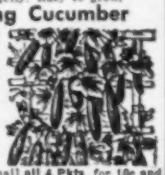

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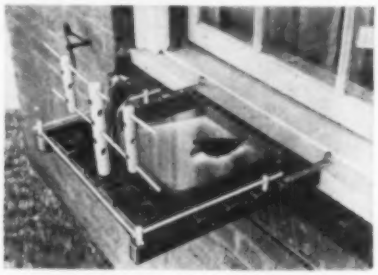

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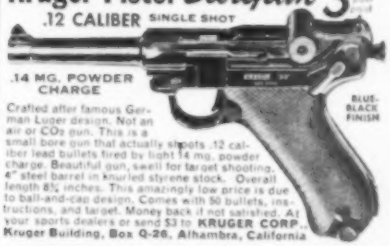

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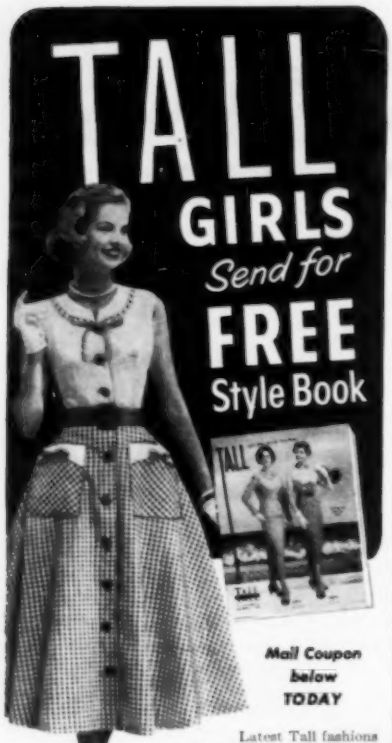

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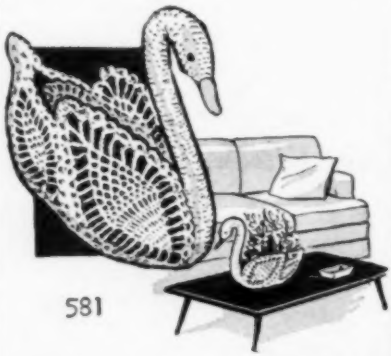

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FREE Included free—special chemical cloth to clean glasses quick.

Read small print by wearing these Precision Eye Glasses! Wear like ordinary spectacles. ***They give you a magnifying glass for both eyes at the same time.*** Get new pleasure out of reading newspapers, magazines, Bible, or doing fine needlework. Read telephone books with ease. Throw away that clumsy magnifying glass. Not for prescription or corrective purposes but designed to make small print look bigger.

NOW! PRECISION GROUND GLASSES ONLY $3.98

Precision Eye Glasses are especially made for folks over 40 who don't wear spectacles regularly for reading, but can't read small print without squinting or using a magnifier. Expertly ground and polished lenses mounted in sturdy frame of brown simulated synolite; fit all heads. Handsome as costly spectacles.

SEND NO MONEY!

Send name, age and sex today. We'll send you a pair of Precision Eye Glasses C.O.D. for $3.98 plus postage charges. Wear 10 days. If not delighted, return glasses for immediate refund of purchase price. If you send $3.98 with order, you save postage and C.O.D. charges. Same money-back guarantee. Start enjoying your reading—order your pair TODAY.

BIG PROFITS FOR YOU!... Sell Precision Eye Glasses to friends, fellow-workers and neighbors. Ask for Money-Making Plan.

ZEVEX OPTICAL CO., 5726 BROADWAY
DEPT. X-304 • • CHICAGO 40, ILLINOIS

20 LARGE NEW TOWELS 5¢ EA

Incredible, but true! 20 large-size, new towels in colors and white — for only 5¢ each! Minimum order 20 for $1.00. (Pls. include 15¢ extra for postage and handling, or $1.15 in all for 20 Towels). Others charge $1.00 for only FIVE unworn cotton and rayon towels like these but we made a terrific purchase and are passing savings on to you. Limit — 2 orders per customer. Money-back guarantee. Order TODAY! Make wonderful gifts.
NICKEL TOWELS, Dept. 916, Box 881, St. Louis, Mo.

EVERYTHING I ATE TURNED TO GAS

"I was bothered by gas for fifteen years. Nothing I took for it, including baking soda, did any good," says Clyde L. Jordon of Muse, Okla. "Now, after taking Dr. Pierce's Golden Medical Discovery for a time, I enjoy any kind of food and sleep sound as a dollar."

Thousands of people who suffered gas pains, heartburn, stomach distress, due to acid indigestion, have tried Dr. Pierce's Golden Medical Discovery with amazing results. Over 35,000,000 bottles of this great non-alcoholic medicine, with its wonderful stomachic tonic action, have been sold. And no wonder. First, taken regularly, it promotes more normal stomach activity, thus helping to digest food better so you won't have gas, heartburn, sour stomach. Second, with stomach activity improved, you can eat the foods you like without fear of after-distress.

Get Dr. Pierce's Golden Medical Discovery, liquid or tablets, at your druggist today.

$500.00 FOR YOUR CHILD'S PHOTO PAID if used for advertising. BIG DEMAND by national advertisers for photos of infants and up to 18 years. Send ONE small photo for approval and FREE GIFTS offer. Print child's and mother's name, address on back. Returned in two weeks. NO OBLIGATION.
HOLLYWOOD AD-PHOTOS 6907 AN8 Sunset Blvd., Hollywood 28, Calif.

GETTING UP NIGHTS

Makes Many Feel Old Before Their Time

There is nothing that can make you feel older and more depressed than losing sleep and worrying about "Bladder Weakness" (Getting Up Nights or Bed Wetting, too frequent, burning and itching urination) or Strong, Cloudy Urine, due to common Kidney or Bladder Irritations, which sometimes result in Backache, miserable referred, secondary aches, pains, headache and nervousness. In such cases New Improved CYSTEX usually gives quick, wonderful, soothing relief by combating germs in acid urine, and by analgesic pain relief. Over a billion CYSTEX tablets used prove safety for young and old. Get CYSTEX from druggist today under money-back guarantee. See how fast you improve.

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EARLIANA TOMATO

"KING OF THE EARLIES"

Big solid, scarlet fruit, disease resistant, heavy yielder. Ideal for table or canning. Send postal today for 125 seed and copy of Seed and Nursery Catalog. 125 SEED FREE

R. H. SHUMWAY SEEDSMAN, Dept. 407, Rockford, ILL.

Now Many Wear FALSE TEETH With More Comfort

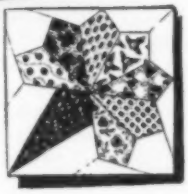
FASTEETH, a pleasant alkaline (non-acid) powder, holds false teeth more firmly. To eat and talk in more comfort, just sprinkle a little FASTEETH on your plates. No gummy, gooey, pasty taste or feeling. Checks "plate odor" (denture breath). Get FASTEETH at any drug counter.

RUPTURED

BE *FREE* FROM TRUSS SLAVERY

Now there is a new modern Non-Surgical treatment designed to permanently correct rupture. These Non-Surgical treatments are so certain, that a Lifetime Certificate of Assurance is given.

Write today for our New FREE Book that gives facts that may save you painful and expensive surgery, and tells how non-surgically you may again work, live, play and love and enjoy life in the manner you desire. There is no obligation.
Excelsior Hernia Clinic, Dept. F 505, Excelsior Spgs., Mo.



537

537. Old-Fashioned Bouquet is a fascinating quilt to make! Each patch takes a small scrap of material—use many different fabrics to give it gay "flower" coloring. Charts, directions, pattern for patches. Yardages for single and double-bed sizes.

7347

7347. Filet crochet forms the dainty centerpiece; pineapple edging is crocheted separately; sewn on! Makes an elegant table-setting! Easy-to-follow charts, crochet directions for oval centerpiece 18 x 24 inches, doily 12 inches in No. 50 cotton.

Send twenty-five cents (in coins) for each pattern to: Farm and Ranch, Needlecraft Department, P. O. Box 112, Old Chelsea Station, New York 11, New York. Send an additional 25c for Needlecraft Catalog.

Enjoy Relief from Constipation *without*

LAXATIVE HANGOVER!

Hours after original relief many laxatives start working again, bringing distress and discomfort. Others cause painful cramps and griping, disrupt *normal* regularity, make you *feel* constipated when you're not!

You suffer none of this "laxative hangover" with Dr. Caldwell's Senna Laxative. Dr. Caldwell's contains no harsh drugs. Its extract of Senna is one of the finest *vegetable* laxative products known. Gives gentle, *natural-like* relief of temporary constipation. Get Dr. Caldwell's today!

DR. CALDWELL'S

SENNA LAXATIVE

Contained in Pleasant-Tasting Syrup Pepsin

COMPLETELY NEW AND AUTOMATIC BIG 48-CUP ELECTRIC PERCOLATOR COFFEE URN

GIVEN TO YOUR CHURCH OR GROUP WITHOUT 1c COST!

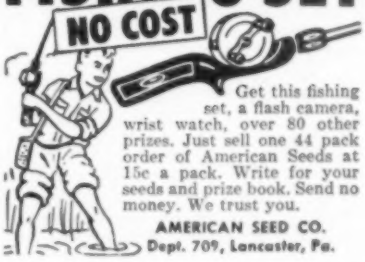
Amazing! Just add cold water and coffee, turn switch and watch it perk. Brews 48 cups automatically. I'll send this Percolator to your group in advance, with a supply of my famous flavorings. Have 10 members sell only 5 bottles each, and it is yours to keep! Take up to 60 days; we give credit.

Write Now for Complete Details FREE!

Rush name and address for my exciting Plan which gives your group this new Percolator and other valuable equipment or adds many dollars to your treasury — sent free, no obligation.
ANNA ELIZABETH WADE, 2290 Tyree St., Lynchburg, Va.

Get 20 Piece Glass Rod FISHING SET

NO COST



Get this fishing set, a flash camera, wrist watch, over 80 other prizes. Just sell one 44 pack order of American Seeds at 15c a pack. Write for your seeds and prize book. Send no money. We trust you.

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Dept. 709, Lancaster, Pa.

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Outstanding Offer Made to Increase Our Customer List

FOR 10¢

4 REGULAR 25c PACKETS
One each of the following

TOMATO - Giant Beefsteak, Home Garden Favorite. Bright red smooth fruits. Shy Seeder. **ASTER** - Giant Shaggy-Mixed Colors. **PETUNIA** - Large Flowered Dwarf Single Mixed Colors. **ZINNIA** - Giant Hybrid Large Flowered Mixed Colors. Send 10c in coin for this big $1.00 value and we will include 1967 Seed & Nursery Catalog. **FREE**

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Asthma misery?

Feel better, faster! Try

Dr. Guild's Green Mountain CIGARETTES OR COMPOUND

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TWO LOVELY RINGS

Beautiful **Engagement** and **Wedding** ring to match in 1/40 10-K R.G.P., set with sparkling brilliants. **Yours** for selling $2.00 worth of famed Rosebud Products. **Order** 8 Rosebud Salve or 8 Tholene Camphor Ointment to sell at 25¢ a box *Or* 4 Rosebud Perfume to sell at 50¢ a bottle. Order 4 Rosebud, 4 Tholene or 2 Perfume for 1 ring.

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NEW!

8-DAY HOME TREATMENT

FOR PAINFUL, INFLAMED

HEMORRHOIDS

See what wonderful relief Unguentine Suppositories can bring when you follow the easy home treatment for just 8 days. If you can remember ever having bought any other hemorrhoid remedy anywhere, at any price, that brought you:

1. **Faster pain relief**
2. **Quicker reduction of swelling**
3. **More soothing coating of your entire irritated area**

return empty boxes to your druggist and every last penny will be refunded.

A Norwich Product

Today ask for
SPECIAL 8-DAY PLAN PACK!

Unguentine®
SUPPOSITORIES

for Hemorrhoids

FREE **10 POULTRY & FOOD BAGS** FREE

You pay others up to 25c each for Poultry & Food Bags but we'll send you 10 FREE to get your name on our mailing list! Pls. send 25c for postage & handling. Limit—two sets to family. Order NOW!

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Leg Applications

Slow upward circulation causes venous leg congestion; and many swollen rash-like ulcered legs. If not relieved, aid expected from medication is lost. If your druggist cannot supply you, send for Free book on **No Cost Plan if trial fails.** Easy to use at home while walking.

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140 N. Dearborn St., Chicago 2, Ill.

By Walter R. Courtenay, D.D.

Three Births

A CHRISTIAN is a person who is born three times and dies three times. Every man is born physically. In love or lust he is conceived, and regardless of these circumstances he is formed within a woman's body, part of every thought and pulse beat. He enters a larger world, a world incomprehensible to him in his fetus state. He could not understand any better than we do the world that awaits us beyond this one. To him the womb-existence would be good enough. But no man can stay there; he must die to the womb in the process we call being born. Thus man's first death is also his first birth, and death and birth are the same thing, meaning only that he leaves one existence for another.

Being born physically is not enough for people who are to be real people. We are more than bodies, more than animals. We are men made in the image of God. But how can we take advantage of this privilege? The answer is one of death and birth, dying to self and being born into the spiritual world. We must put the spiritual world above the material. We do this by what Christians call conversion, dying to self and being born into the conscious love of God. Repentance means that we leave the ways of self-centeredness and concentrate on the ways of God as we see them exemplified in Jesus Christ.

Eventually the womb of earth forces us to leave this world, and be born into a new condition of existence. The mother's womb prepares us for this world, and the earth-womb prepares us for the next. In the process we are born three times and die three times, and every death is in a strange, mysterious way, a birth.

The best of men are born three times and die three times, and only those who know the three deaths and the three births find Heaven and God, and they find it through Him who said, "I am the way."

WANTED MAN or WOMAN

No Time Like Now to Get In McNess Business

It's no trick to make good money when you use your car as a McNess "Store on Wheels." Farmers buy everything they can from McNess Men because McNess Products are tops in quality, represent extra values. Attractive business-getting prizes and premiums; also money-saving deals to customers make selling McNess daily necessities a snap.

We Supply Capital—Start Now!

There's no better work anywhere. Big profits, permanent, need no experience to start, and we supply capital to help you get started quick. You begin making money first day. Write at once for McNess Dealer Book. It's FREE. Tells all—no obligation. (23)

THE McNESS CO., 358 Clark St., Freeport, Ill.

WAKE UP RARIN' TO GO

Without Nagging Backache

Now! You can get the fast relief you need from nagging backache, headache and muscular aches and pains that often cause restless nights and miserable tired-out feelings. When these discomforts come on with over-exertion or stress and strain—you want relief—want it fast! Another disturbance may be mild bladder irritation following wrong food and drink—often setting up a restless uncomfortable feeling.

For quick relief get Doan's Pills. They work fast in 3 separate ways: 1. by speedy pain-relieving action to ease torment of nagging backache, headaches, muscular aches and pains. 2. by their soothing effect on bladder irritation. 3. by their mild diuretic action tending to increase output of the 15 miles of kidney tubes.

Find out how quickly this 3-way medicine goes to work. Enjoy a good night's sleep and the same happy relief millions have for over 60 years. Ask for new, large size and save money. Get Doan's Pills today!

HOT WATER QUICK!

New Portable Pocket-Size Water Heater

Place in water; plug in socket... turn on switch! Hot Water! Thousands use for bathing, washing clothes, dishes, cream separators, pails, shaving, etc. Heats small quantities very quick! Heating speed of large quantities depends on quantity. Read directions before using, follow. Regular price $2.95. However if you'll tell your friends about BOIL-QWIK to advertise it for us, we will let you now have one for only $1.98 plus tax.

SEND NO MONEY Just name and address. Pay postman $1.98 plus Federal Tax, C.O.D. postal charges. Satisfaction guaranteed or return within 10 days for refund.

BOIL-QWIK, 4554 Broadway, Dept. G-39, Chicago 40, Ill.

AGENTS DISTRIBUTORS Write. REGULAR PRICE $2.95—LIMITED TIME only $1.98

Special Offer. Easy-to-grow carnation plants from seed. Loads of giant everblooming flowers. New, largest flowered Tetra-snapdragons. Sturdy 2½ ft. spikes, bloom all summer. Send 10¢ today for both packets and Seed, Plant and Nursery Catalog **FREE**

R. H. SHUMWAY Seedsman, Dept. 409, Rockford, Illinois

Amazing New Creme Color Shampoo

RE-COLORS HAIR

IN 17 MINUTES

Now change streaked, gray, graying or drab hair to a new lustrous youthful-looking color, try Tintz Creme Color Shampoo today. It's a new hair coloring that recolors hair at home as it shampoos. Takes only 17 minutes. No waiting for results. It's easy to use — no messy mixing. Won't wash or rub out. Get your choice of color today: Lt. Ash Blond, Gold Blond, Red Blond, Blond, Lt. Warm Brown, Lt. Auburn, Auburn, Med. Warm Brown, Dk. Warm Brown, Dk. Brown, Lt. Brown, Med. Brown, Black, Jet Black.

TRY AT OUR RISK Write today, only $1.65 tax incl. on money back guarantee of satisfaction. If C.O.D. postage extra. $1.00 deposit required on C.O.D. orders. (Enclose $1.65 tax incl. Tintz pays postage.) Mail order today to:

TINTZ CO., Dept. 303, 230 N. Michigan, Chicago 1, Ill.

Make Double-Cropping Double-Easy

(Continued from page 42)

method, but bedding and planting in the bottoms (furrows) covers up a lot of the residue and makes cultivating easier.

Carolina farmers who double-crop by this method use all kinds of bedder-planters; a lot of them build one.

When the summer crop is planted in the residue, there may be a shortage of nitrogen for it. That's because bacteria are tied up in the decomposition process; on soils where nitrogen is needed, better supply some nitrogen fertilizer for the beans. And, although beans and sorghums respond less to phosphorus and potash than some crops, on most soils they'll be definitely aided by a starter fertilizer.

In Kentucky, agronomists have compared double-cropping corn after small grain with wide-row planting of corn and small grain. (Corn is planted in 80-inch or similar width rows, with strips of small grain between the rows, so the two crops don't compete with each other for moisture during most of their growing seasons). Under conditions so far, simple, double-cropping seems at least as good as a yield-producer, and saves a lot of the problems of wide-row planting.

This is how soybeans are planted after small grain on the farm of J. F. Hiers and Son farm, Ehrhardt, S. Car., without burning straw or preparing land.

This is how the Hiers farm adapts cultivator for working soybeans which are planted in the grain residue. Note the discs on cultivator gangs.

MAKE A CHOICE and MAKE A PROFIT

Choose the Hall Brothers' Breed or Crossbreed that fits your particular requirements. You get a head start with the Bred-In Profit-Producing Potential of . . .

HALL BROTHERS' CHICKS

SILVER HALLCROSS

Combine profits from eggs with profits from meat in this — the greatest dual-purpose bird. Strong and vigorous, mature early. Super profits from large egg production PLUS end of season profits from meat. Your choice for egg and meat profits.

SEX-LINKED HALLCROSS

If you want eggs — eggs and then more eggs, choose these proven egg producers first introduced by Hall Brothers 25 years ago. Imitated but never equalled as prolific producers of large brown eggs. Economical, healthy birds that come into production early. Your choice for bigger egg profits.

Send for *NEW — FREE* Folder. See all Hall Brothers' Breeds and Crossbreeds in actual Kodachrome colors. Read about recent contest records.

HALL BROTHERS HATCHERY, INC. Box 2, Wallingford, Conn.

GOLDEN RULE BABY CHICKS

Our 34th year. Heavily improved with R.O.P. bloodlines from world famous breeding. White Leg., Westline Strain Cross Leg., New Hamps, White, Barred, Buff Rocks, Wyan., Buff Orp., Reds, White and Blk. Giants, Lt. Brahmas, Anconas, Blk. Minorcas, Br. Leg., Hamp-Rock,. For Broilers — Holtzapple White Nicks, Wyan-Rocks, Wyan-Hamps, Granite Whites. Pullorum Typhoid Clean. Early Order Discounts. Free 24 page Catalog.

GOLDEN RULE HATCHERY
Dept. 15 Bucyrus, Ohio

Make MORE MONEY with these chicks!

Many customers report RIVERSIDE CHICKS by far the best producers! Be your own judge. Try RIVERSIDE highest-laying strain in your favorite breed this year. Hatching 22 breeds including first generation Babcock, Mt. Hope, Parmenter, Parks, Holtzapple, Nedler. ALSO, NEW RIVERSIDE "S-X" STRAIN-CROSS WHITE LEGHORNS! Send TODAY for complete free kit of information! — **One of the South's oldest hatcheries, Pullorum-Typhoid clean, low priced best grade chicks!**

RIVERSIDE HATCHERIES
Box 1391J Knoxville, Tenn.

IMITATION
DIAMOND RINGS
$1.49 each or both for $2.49

Gorgeous Solitaire and Wedding Ring set with beautiful imitation diamonds in 1/30 14 Kt. Yellow Gold Plated or Sterling Silver or White Gold color effect on a MONEY-BACK GUARANTEE. SEND NO MONEY. Pay Postman on delivery plus postal charges. If you send cash or money order with order we pay postage. HAREM CO., "The House of Rings," 30 Church Street, Dept. C-45, New York, N. Y.

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Parmenter CHICKS
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FREE DESCRIPTIVE BOOK

As a public service to all readers of this paper, a new 36-page highly illustrated book on Arthritis and Rheumatism will be mailed ABSOLUTELY FREE to all who write for it.

This FREE BOOK fully explains the causes, ill-effects and danger in neglect of these painful and crippling conditions. It also describes a successfully proven drugless method of treatment which has been applied in many thousands of cases.

This book is yours WITHOUT COST or obligation. It may be the means of saving years of untold misery. Don't delay. Send for your FREE BOOK today. Address The Ball Clinic, Dept. 515, Excelsior Springs, Mo.

"Sweetens Whole 'Insides', Relieves Constipation — *both overnight!*"

Says Mrs. Milton Kistler, Wescosville, Pa.: "Black-Draught — a laxative and stomach sweetener all-in-one — made life look sunny again."

Half-alive, headachy when stomach is soured by constipation? Black-Draught* relieves constipation *overnight!* Helps sweeten sour stomach at same time!

No harsh griping! Made from pure vegetable herbs. Thoroughly but gently uncorks clogged intestines. Brings comforting relief in morning! Then life looks sunny again! Get Black-Draught today!

**In Powder or Granulated form . . . and now in new, easy-to-take Tablets, too!*

FOR CHILDREN: When constipation sours a child's digestion and disposition, get Syrup of Black-Draught. They love its honey-sweet liquid!

TOMBSTONE
$10.50 up
Freight Paid
Lettering and Footstone
Satisfaction guaranteed. Catalog Free.
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just comb your hair, vacuum control feeds the color into your hair smooth and even like a beauty shop finish as you comb, a few strokes occasionally keeps it that way—also adjustable for oil or tonics, simply refill when empty, lasts a lifetime, beautifully designed, aids healthy scalp. 5 day moneyback guarantee, order direct from factory save money ONLY $1.98 prepaid or pay when delivered COD. (Also free, no charge, extra refills.)

EVENTONE PRODUCTS Dept. 20 DAYTON 1, OHIO

MAILBOX MARKET

Classified Advertising

Cash with order. No advertisement less than ten words accepted. Count each initial and whole number as one word. Orders, cancellations, or changes in copy must reach Nashville office 20th of second month preceding month of issue. In other words, the closing date for our March issue is the 20th of January.

Classified Display

(Bold Type and Illustrations)

Classifications eligible: Pets, Farm Machinery, Livestock, Nursery Stock, Seeds and Plants, Photo Finishing, Poultry. Display classified advertising confined to column width except Livestock, Poultry, Nursery Stock, which may be 2 columns wide. Cash with order except from recognized advertising agencies.

RATES BY EDITIONS

Editions	Per Word	Display Classified Per Inch	Guaranteed Circulation
Both Editions	$0.80	$105.00	1,290,000
Southeastern	0.52	64.05	785,600
Southwestern	0.33	46.45	504,400

REAL ESTATE

FARMS AND RANCHES

INCOME FROM FIRST DAY! Well-planned 272-acre Tennessee farm complete with 10 cows, registered bull, 3 calves, team mules, 5 sows, 37 shoats, 1½-ton truck, tractor, farm implements! 140 tillable includes 100 bottom land, 65 wooded, 40-acre pasture, good ponds, spring, creek, about 27 fruit trees. On blacktop road, 2½ miles highway town, 60 Nashville. Cinder block 5-room 3-bedroom home. Good 40-ft. barn, 2 poultry buildings, dairy barn. An attractive farm buy going for $23,000 complete, less than half down. New Spring bargain catalog, just off press, Coast-to-Coast, sent free! United Farm Agency, 2825-FR Main St., Kansas City 41, Missouri.

DAIRY FARM: 200 Acres, nine miles Hot Springs, Arkansas. 150 acres good farm, pasture land; 34 acres in oak and pine. Cold spring creek, large spring, run yearly. Completely equipped barns for all purposes. Large dipping vat. Deep well with new pump. Modern, dwelling house with large sleeping porch, 4 rooms. Well fenced farm, most beautiful in county. Year-round market for Grade A dairy producer. Reason for selling—tenant operating farm is ill. Terms arranged. H. H. Jeffries, 402 Third St., Hot Springs, Arkansas, Phone NAtional 3-5361.

FERTILE 200 ACRE FAMILY FARM. Rich bottom land. Red clay base hills. Farm consists of entire Valley. 100 acre cropland, 100 acres young timber. 2 Springs. 4 Ponds. 3 Barns. House. Electricity. Excellent roads. 1.7 acre tobacco base. Fine community near Ruskin Cave, Dickson, Tennessee. Reasonably priced $8,000.00. Write or call: Dr. William M. Jackson, Dickson, Tenn. Phone HI 6-2303.

BEAVER CREEK RANCH. 2200 acres. 32 Everlasting springs. All headwaters of beautiful Beaver Creek. Productive, well timbered hills. Fenced and cross fenced. 4 Houses. 3 Barns. Telephone. Electricity. Excellent roads. Fine community. Now pasturing 160 head Angus cattle. Sacrifice price $44,000.00. Call or write: Dr. William M. Jackson, Dickson, Tenn. Phone HI 6-2303.

WELL DEVELOPED 120 acre family farm, 70 acres cropland. Pastured for 5 years, limed and fertilized. One fourth mile from wonderful community, McEwen, Tennessee. Now 100% covered with permanent pasture. 20 acres fine white oak timber. House, barn and out buildings. Price $9,000.00. Write or call: Dr. William M. Jackson, Dickson, Tenn. Phone HI 6-2303.

FLORIDA HOMES, Farms, Groves, Ranches, Business Opportunities. Write For List. B. L. Chambers, Wauchula, Florida.

FREE LIST FARMS, Ranches, Homes. Johnson Realty-FR, Marshfield, Missouri.

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DEPRESSION PRICES—We Sell Cheap—Save 75% off—New and used Tractor Parts—Crawlers and Wheel Tractors—160—Makes and Models—1957 catalog ready—send 25c refundable. Surplus Tractor Parts Corporation, Fargo, North Dakota.

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RECONDITIONED — GUARANTEED

700x15	6 Ply	$ 6.95	700x17	$ 8.50
750x15	6 Ply	10.95	750x17	11.50
750x20	8 Ply	12.50	700x20	10.50
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600x16		4.95	900x20	19.50
650x16		5.95	1000x20	19.50

We Pay Freight on 3 or More Tires
Send Check or Money Order

BRIDGES TIRE CO.
516 Railroad St. Decatur, Alabama

SUBSCRIBE TO GOVERNMENT SURPLUS WEEKLY. Lists all sales. Buy Jeeps, Tractors, etc., direct from Government. Next 4 issues $1.00. Government Surplus, Paxton, Illinois.

GARDEN TRACTORS—3 HP $100.00. Winter special. Universal Mfg. Co., 324 West 10th, Indianapolis 2, Ind.

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MORE MILES PER TIRE DOLLAR
Factory Adjustment Tires
12 Months Written Guarantee

670 x 15	760 x 15
710 x 15	820 x 15

$4.95 Each

Trailer, Wagon, Implement Tires
600 x 16; 650 x 16; 670 x 15; 710 x 15; 760 x 15; 800 x 15; 820 x 15; $2.95 Each.
Send check or money order, sizes wanted to
TESTED TUBES $1.00 EACH
WE PAY FREIGHT ON 4 OR MORE TIRES
MACELS TIRE SERVICE
1020 Canal St. Decatur, Alabama

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SENSATIONAL GARDEN AND ROW CROP tractor. Hoes between plants and rows. Nothing else like this. Patent No. 2742840. Will work 3 acres per day. 10 year old can operate. Will also till. Because all parts are available in your town it is being offered direct at big savings. Priced for the small garden maker as well as acreage growers. Also time plan. Now, off-season discounts. Fantastic offer to first few inquiries from your area. Auto Hoe, DePere, Wisconsin.

TREMENDOUS SAVINGS on tractor parts. Buy direct. Nation's largest combination stock of new and used parts. Free 1957 Catalog. Central Tractor Parts Co., Des Moines, Iowa.

TIRES AT TREMENDOUS SAVINGS. Tractor, grader, truck, aircraft, army surplus, and passenger. Send for free catalogue. Duddy's, 152 N. Beacon St., Boston 35, Massachusetts.

BUILDING MATERIAL

PLANNING TO BUILD? Then you'll want to order the new FARM AND RANCH Home Building and Beautification Book. Contains sketches of over forty FARM AND RANCH homes, plus helpful "how-to-do-it" information on building or remodeling. Just send $1.00 to FARM AND RANCH, Dept. FR-2, 316 Murfreesboro Road, Nashville, Tenn.

PETS—BIRDS—BEES

BEES

BEES INCREASE SEED and fruit yields, require little attention. Big Profits. Stingproof equipment. Factory prices save 25%. Free advice from experienced bee men. Free catalogue. Walter T. Kelley Co., Dept. F, Clarkson, Kentucky.

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PEAFOWL. Pheasants, Bantams, Geese, Ducks. Thirty varieties Pigeons. John Haas, Bettendorf, Iowa.

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HUNTERS—Dogs of the hunting breeds. Coon, $25.00; Combination, $30.00; Semi-Silent, $20.00; Squirrel, $15.00; Rabbit, $15.00; Fox, $25.00. 10 days trial. Write for literature containing terms of sale. J. N. Ryan Kennel, Murray, Kentucky.

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GENUINE English Shepherd pups (Distemper vaccinated). Farm raised. Guaranteed heelers. Year's trial. Training instructions. Males, females, spayed females. Highview Kennels, Cedar Falls, Iowa.

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Flowering Shrubs Blooming Size

Abelia Pink	1 to 2 ft.	$ .49
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Persian Lilac	1 to 2 ft.	.49
Crape Myrtle Red	1 to 2 ft.	.69
Sweet Shrub	1 to 2 ft.	.29
Golden Belle	1 to 2 ft.	.19
Spirea Van Houttei	1 to 2 ft.	.29
Pink Spirea	1 to 2 ft.	.29
Red Ozier Dogwood	1 to 2 ft.	.29
Scotch Broom	1 to 2 ft.	.29
Deutzia Pink	1 to 2 ft.	.29
Hydrangea	1 to 2 ft.	.39
Mock Orange	1 to 2 ft.	.19
Rosea Sharron	1 to 2 ft.	.29
Collected Mountain Laurel	1 to 2 ft.	.49
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Pink Flowering Dogwood	1 to 2 ft.	.89
Pink Flowering Dogwood	2 to 4 ft.	1.49
White Flowering Dogwood	2 to 4 ft.	.98
Mimosa Tree	2 to 3 ft.	.39
Red Bud	2 to 3 ft.	.39
Lombardy Poplar	2 to 4 ft.	.29
Silver Maple	2 to 4 ft.	.49
Weeping Willow	2 to 4 ft.	.49
Red Flowering Peach	1 to 2 ft.	.49
Purple Leaf Plum	2 to 4 ft.	.69
Chinese Elm	3 to 4 ft.	.49
Collected Magnolia Acuminata	2 to 3 ft.	.99
Tulip Tree	2 to 3 ft.	.49
Pecan Trees	1 to 2 ft.	1.19
Sugar Maple	1 to 2 ft.	.10
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Chinese Wisteria	.39
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Mock Orange	.10	.40
Weigela, Pink or Red	.15	.60
Weigela, Yellow	.29	1.00
Red Coralberry	.15	.60
Golden Bell	.09	.40
Red Osier Dogwood	.19	.75
Hydrangea P.G.	.20	.90
Persian Lilac	.25	1.00
Oak Leaf Spirea, Nina	.29	1.00
Red Flowering Quince	.35	1.50
Rose Sharon, mixed colors	.09	.40
Pink Spirea	.15	.60
Crepe Myrtle, Pink or Red	.79	3.50

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Pink Dogwood	1 to 2 ft.	.75	3.50
Pink Dogwood	2 to 3 ft.	1.00	4.75
White Dogwood	2 ft.	.25	1.00
Mimosa, Pink	2 to 3 ft.	.20	.90
Red Bud	2 to 3 ft.	.20	.90
Flowering Crab	2 ft.	.59	2.75
Flowering Peach, Red or White	2 ft.	.59	2.75
Purple Leaf Plum	2 ft.	.59	2.75

Fast Growing Shade Trees

Chinese Elm	3 to 4 ft.	.35	1.50
Silver Maple	2 to 4 ft.	.25	1.00
Lombardy Poplar	2 to 3 ft.	.20	.85
Weeping Willow	2 to 4 ft.	.30	1.25
Tulip Tree	2 to 3 ft.	.25	1.00

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Glossy Abelia	2 ft.	.29	1.25
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Laurel Cherry	1 to 2 ft.	.35	1.50
Juniperus Virginiana	1 to 2 ft.	.25	1.00
Christmas Fern		.25	1.00
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Halls Honeysuckle, Yellow, Pink, Red	.15	.60
Trumpet Vine, Orange	.15	.60
Vinca Minor, Periwinkle Blue	.19	.75
Red Flame Honeysuckle	.29	1.25
25 California Privet Hedge	$1.25	100 for 4.50
25 Spirea, Bridal Wreath Hedge	2.50	100 for 9.00
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Hedge Plants Are 1 to 2 Feet.

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Althea Double Red	1 to 2 ft.	$ .29
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Sweet Shrub	1 to 2 ft.	.29
Weigela Pink	1 to 2 ft.	.19
Weigela Yellow	1 to 2 ft.	.29
Persian Lilac	1 to 2 ft.	.39
Hydrangea P.G.	1 to 2 ft.	.29
Bush Honeysuckle	1 to 2 ft.	.19
Scotch Broom	1 to 2 ft.	.29
Spirea V. H.	1 to 2 ft.	.19
Spirea Pink	1 to 2 ft.	.49
Red Snowberry	1 to 2 ft.	.19
White Snowberry	1 to 2 ft.	.39
Red Osier Dogwood	1 to 2 ft.	.29
Russian Olive	1 to 2 ft.	.29
Abelia	1 to 2 ft.	.39
Flowering Almond	1 to 2 ft.	.39

FLOWERING TREES

Red Leaf Peach	2 to 3 ft.	.49
Purple Leaf Plum	2 to 3 ft.	.59
Mimosa	2 to 3 ft.	.49
Red Bud	2 to 3 ft.	.49
Pink Flowering Dogwood	2 to 3 ft.	.98
Golden Rain Tree	1 to 2 ft.	.98

SHADE TREES

Chinese Elm	2 to 3 ft.	.49
Silver Maple	2 to 3 ft.	.49
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Order as many or as few plants as you wish. All plants are Nursery grown, nice well rooted plants. All Orders shipped Post-paid. Write for free price list. Order Now.

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☐ 2 Pear Trees, 2 to 4 ft., $1.00 or 4 for $1.85. 1 Keiffer and 1 New Orient.

☐ 2 Plum Trees, 3 to 6 ft., $1.00 or 4 for $1.85. 1 Abundance and 1 Blue Damson.

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☐ Montmorency ☐ Early Richmond

☐ QUICK-BEARING PAPER SHELL PECAN TREES, 3-year-old, budded. 2 to 3 ft., $2.00 each; 3 to 4 ft., $2.50 each. Varieties: Stuart, Miss Giant, Schley, Success.

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We will enclose in your order ONE SPECIAL ROSE BUSH FREE of extra charge. Please send us the names and addresses of 3 of your neighbors.

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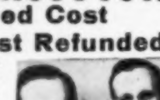

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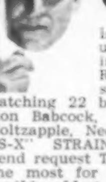

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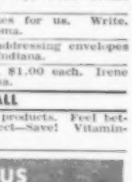

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How? First, we would have to decide what we want. Where are we now, where do we want to go from here, and how do we get there? It's important to recognize and admit the mistakes we've made. For we can't know where we're going unless we know where we've been.

Equal Shares Is Planned Poverty

Over 60 percent of the 317,000 burley tobacco farms in this country are limited to the minimum level of 5/10 of an acre. And the way it's going, the minimum will some day be the maximum. And every tobacco grower will be a part of the planned poverty. Congress keeps cutting the big plots because the politicians are afraid to cut out the little plots. So we may eventually have "equal shares"—everybody the same. Dividing the right to produce on an equal-share basis will socialize and pauperize American agriculture.

The government can't possibly guarantee a decent living to a family with a cotton allotment of five acres, or a tobacco allotment of 9/10 of an acre, even with 100 percent of parity.

Low-income farmers get little help from the soil bank or from high supports either. We must have a farm program based on high income, not high prices. You spend income, not prices.

Government rationing of the right to produce among smaller and smaller "equal shares" encourages inefficiency, raises production costs, raises prices to consumers and loses markets here and abroad.

It's been suggested that other commodities ought to copy the burley program. Equal shares is Socialism. Why want it? And why wouldn't that same thing happen to cotton, corn, rice, beef and anything else under the same kind of price and production controls?

We must have a farm program allowing high income for the efficient, not one which merely divides income among twice as many people.

The cost-price squeeze which farmers are in can't be answered by 100 percent parity or any other political gimmicks. Labor's excesses must be curbed. Taxes must be lowered. We must get our cost of production down—both on agricultural products and industrial—so we can sell to the world and buy from the world. We can't compete in world markets any more because we have let government bureaucracy supplant supply and demand.

So what do we do? We dump our surplus agricultural products on world markets and let U. S. taxpayers pick up the check. We must increase our efficiency, reduce our costs and recapture lost world markets on a profitable basis. A dumping ground is not a market. A give-away is not competition.

We Must Compete

I have a great faith in the ability of free American institutions to compete with the world—catch as catch can. We have the world's garden spot—the world's industrial dynamo—the most know-how, the world's supreme mass-production techniques, and the remnants of what is left of the history's most successful economic system—free, competitive capitalism.

If we can't compete to our advantage—both agriculturally and industrially in world markets—it's because we have become more interested in social security than in risk—more interested in a 35-hour week than in doing greater things—more interested in a benevolent government taking care of us than in taking care of ourselves.

Some people say we have huge surpluses because we have too many farmers, too much production. That's a poor explanation. Actually, we have surpluses because farmers have been producing for the government instead of for the market. There would be no surpluses if farmers had been producing for a free market. Prices would be higher. And there'd be fewer farmers.

How come we over-produce? Because our farm people have modern machinery, science, capital, initiative, self-reliance—and the profit system. They produce for their pocketbooks instead of for some political bureaucracy. In spite of all the shackles and controls imposed by government in recent years, American farmers are still more the master of their own fortunes than is the government.

The soil bank is, I hope, a temporary stop-gap program to be operated only long enough to give us time to get rid of most of the stored surpluses and develop a desirable balance between production and consumption—and to develop a good long-range farm plan.

The One That Will Work

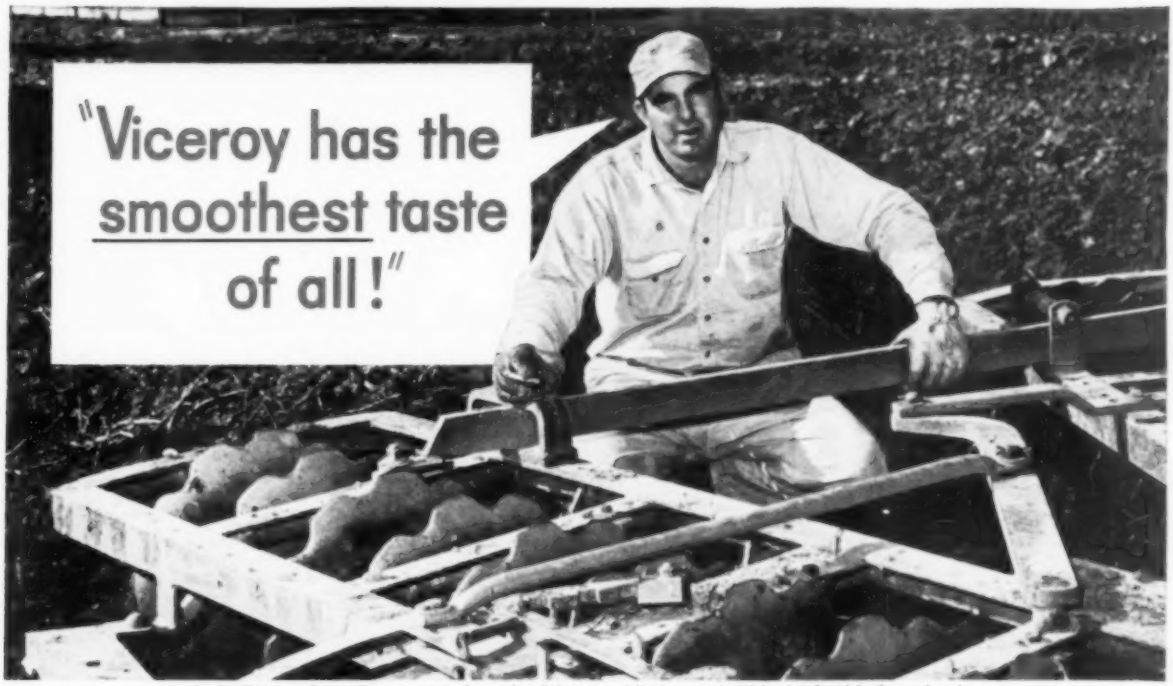
We have had programs for everybody who called himself a farmer and for many who didn't. Programs which plowed under pigs, which paid individuals vast amounts of money for not farming, which encouraged people to produce for government instead of for market.

I think many of these plans were ill-conceived, poorly administered and self-defeating. They carried us down the wrong road. Any plan which doesn't lead in the direction of a free, de-controlled, de-subsidized, supply-and-demand agriculture is not a good plan and is not good for the American people.

The only farm plan that will work—that has ever worked satisfactorily—is a free market. Let's get back to it.

In succeeding months on this page we shall point out past and present mistakes and examine ideas and programs which I think could lead us back to a prosperous, expanding and free American agriculture.

Luke Detraz, Jr., RICE GROWER OF ABBEVILLE, LA., SAYS:



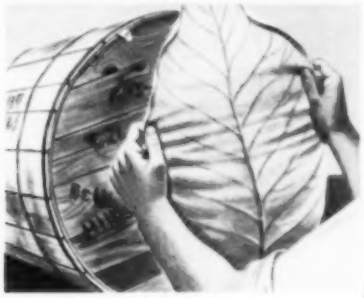
Luke Detraz, Jr., enjoys a smooth-tasting Viceroy while harrowing his rice land before planting.

Smooth!

From the finest tobacco grown, Viceroy selects only the Smooth Flavor Leaf. No other will do!

Extra Smooth!

Each Smooth Flavor Leaf is specially Deep-Cured, golden brown through and through, for *extra* smoothness!



Super Smooth!

Only Viceroy smooths each puff through *20,000 filters* made from pure cellulose—soft, snow-white, natural!

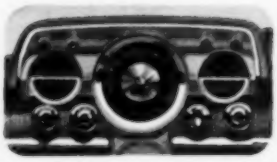
Luke Detraz, Jr.,

a Director of the American Rice Growers Cooperative Association, uses only the most up-to-date methods in rice cultivation . . . gets a yield of 21 bbls. per acre dry weight. Mr. Detraz is up to date in his choice of cigarettes, too . . . chooses Viceroy for *smoothness* . . . "Smoothest smoke ever!" he says.

© 1967, Brown & Williamson Tobacco Corp.

1. YOUR CHOICE OF FIVE FINE TRANSMISSIONS

2. PERFORMANCE REACHES NEW HIGHS



3. COMMAND POST CONTROL PANEL

4. LOOKS LONGER . . . AND IT IS!

5. HEADLIGHT-HOOD AIR INTAKES

6. NEW SIZE WHEELS AND TIRES

7. DRAMATIC NEW FRONT END DESIGN

1. YOUR CHOICE OF FIVE FINE TRANSMISSIONS
Chevrolet offers a transmission to suit every driver's taste—automatic,* overdrive* and manual.

2. PERFORMANCE REACHES NEW HIGHS
New choice of 5 engines—superb 6 and four silken V8's with up to 245 h.p. Also a special 270-h.p. V8 available at extra cost.

3. COMMAND POST CONTROL PANEL
A deeply hooded cove, directly in front of the driver, houses all instruments, controls and gauges.

4. LOOKS LONGER . . . AND IT IS!
Those longer, lower lines are no illusion. The '57 Chevrolet measures up to them. It *is* longer, lower—and every inch a beauty!

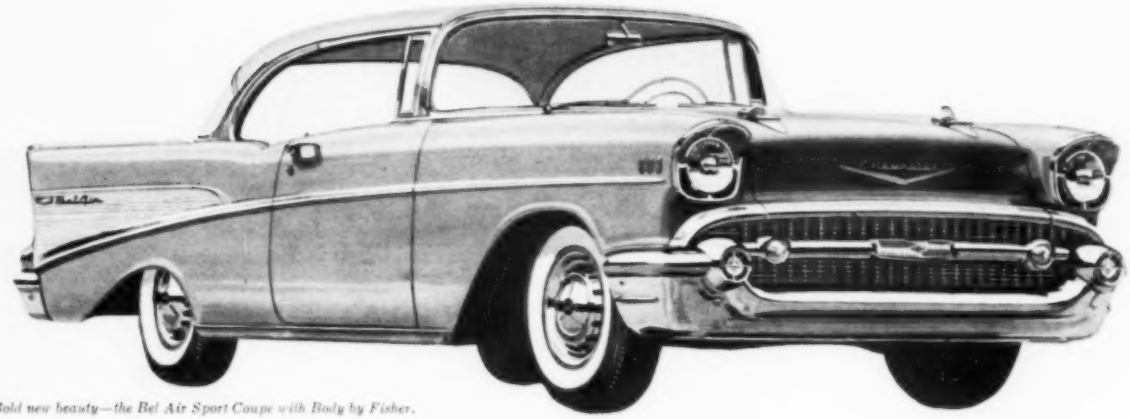
5. HEADLIGHT-HOOD AIR INTAKES
Here's a smart idea—ventilation air intakes cap the headlights for a new note in styling. And it's clean high-level air, too.

6. NEW SIZE WHEELS AND TIRES
Chevy now has 14-inch wheels, 7.50 x 14 tires. The velvety ride is even softer because air pressure is reduced to a new low of 22 pounds.

7. DRAMATIC NEW FRONT END DESIGN
The front bumper is combined with the grille for new massiveness and uncluttered purity of line.

**Optional at extra cost*

THERE'S THE GREATEST CHANGE IN CHEVROLET!



Bold new beauty—the Bel Air Sport Coupe with Body by Fisher.

For '57, Chevrolet comes up with a dramatic new departure in design! Plus new power, new comfort, new nailed-to-the-road stability, new ideas right down to the wheels it rolls on. It's Sweet, Smooth and Sassy!

Chevrolet's great design team has come up with a whole galaxy of sparkling new advances. You can *see* that a block away, in Chevy's proud new bumper-and-grille front, in the bold flare of its rear fenders, the clean-lined simplicity of its integrated taillight assembly. You can *feel* the difference, instantly, the moment you nudge the accelerator on any of Chevy's superb new engines. Matter of fact, there's so much that's new and wonderful about this new Chevy you can spend fascinating hours just getting acquainted with 1957's most distinctive car. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.